SSB SB 7-12L (12V 7AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.75 V/C)	7.0AH	
	20 hour rate (0.36A, 10.5V)	7.0Ah
	10 hour rate (0.69A, 10.5V)	6.7Ah
	5 hour rate (1.16A, 10.5V)	5.6Ah
	1 hour rate (4.80A, 9.6V)	4.6Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤19 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	151 / 5.94
	Width (mm / inch)	65 / 2.56
	Height (mm / inch	94 / 3.70
	Total Height (mm / inch)	100 / 3.94
Approx. Weight (Kg / lbs)	2.20 / 4.84	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	105A(5s)	
Short Circuit Current	350A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.30-2.35VPC
	Maximum charging current	2.88A
	Temperature compensation	-30mV/°C
	Standby use	2.23-2.27VPC
	Temperature compensation	-20mV/°C
Life expectancy	6~9 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

MH45680 | ISO14001 | Intertek ETL SEMKO

ISO9001 | VdS G111034

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	30.0	18.8	15.3	8.50	4.80	1.88	1.25	0.71	0.38
1.65V	28.4	17.9	14.6	8.15	4.63	1.82	1.20	0.70	0.38
1.70V	26.8	17.0	13.9	7.86	4.44	1.76	1.16	0.70	0.37
1.75V	25.2	16.0	13.2	7.56	4.25	1.69	1.12	0.69	0.36
1.80V	23.5	15.1	12.5	7.18	4.04	1.64	1.10	0.67	0.35

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	53.3	35.8	28.1	15.5	11.8	9.30	5.13	3.68	2.38
1.65V	50.7	34.0	27.0	14.9	11.3	8.90	5.02	3.59	2.34
1.70V	48.1	32.2	25.9	14.3	10.8	8.53	4.89	3.49	2.30
1.75V	45.6	30.4	24.8	13.7	10.4	8.28	4.73	3.38	2.25
1.80V	43.1	28.6	23.8	13.2	10.0	7.90	4.58	3.27	2.19

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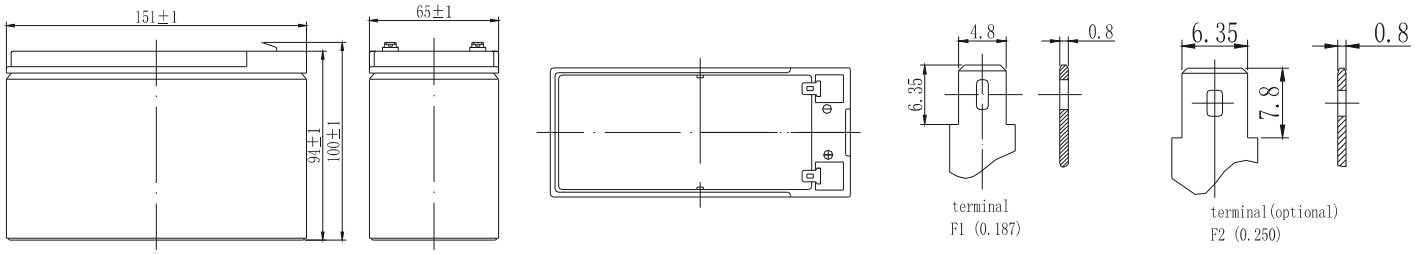
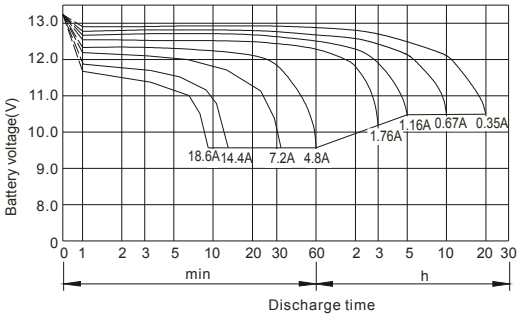
Updated: 25.03.2019

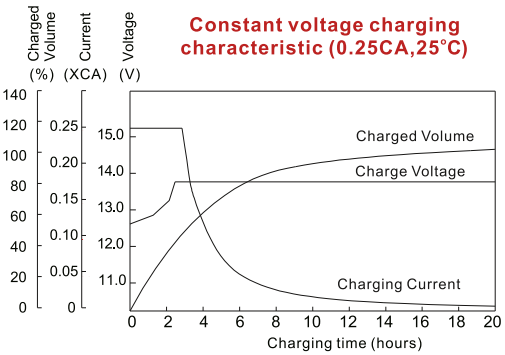
Dimensions



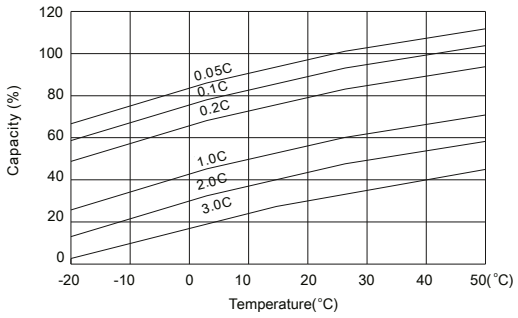
Discharge Characteristics



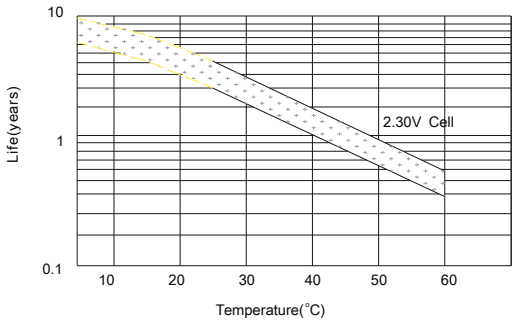
Float Charging Characteristics



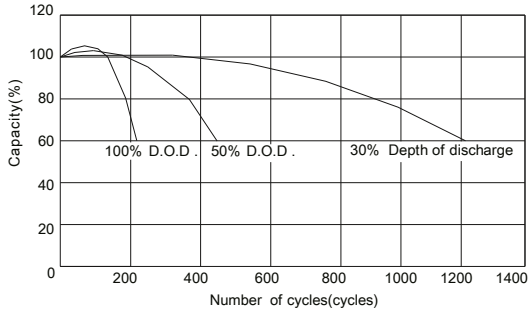
Temperature Effects in Relation to Battery Capacity



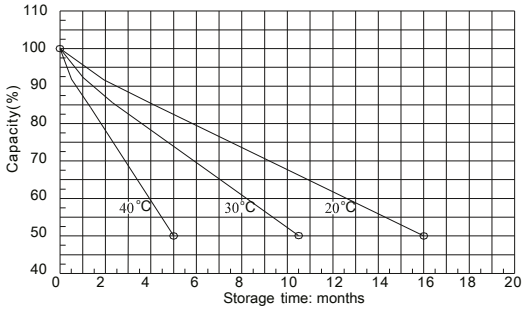
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 12-12L (12V 12AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.75 V/C)	12.0AH	
	20 hour rate (0.60A, 10.5V)	12Ah
	10 hour rate (1.14A, 10.5V)	11.4Ah
	5 hour rate (2.05A, 10.5V)	10.25Ah
	1 hour rate (8.14A, 9.6V)	8.14Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤19 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	151 / 5.94
	Width (mm / inch)	98 / 3.86
	Height (mm / inch	95 / 3.74
	Total Height (mm / inch)	101 / 3.98
Approx. Weight (Kg / lbs)	3.67 / 8.01	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	180A(5s)	
Short Circuit Current	600A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	4.8A
	Temperature compensation	-30mV/°C
	Standby use	2.23-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001 | VdS G111034

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	46.4	31.7	24.8	13.8	8.14	3.18	2.12	1.18	0.61
1.65V	45.0	30.8	24.3	13.5	8.04	3.15	2.10	1.17	0.61
1.70V	43.5	29.9	23.7	13.3	7.94	3.12	2.07	1.16	0.61
1.75V	42.1	29.0	23.2	13.0	7.85	3.09	2.05	1.14	0.60
1.80V	40.6	28.2	22.6	12.7	7.75	3.06	2.02	1.12	0.59

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	86.2	58.7	46.7	27.0	20.6	16.1	8.50	6.50	4.20
1.65V	84.1	57.7	46.0	26.6	20.4	16.0	8.42	6.44	4.17
1.70V	81.9	56.6	45.3	26.2	20.1	15.8	8.33	6.37	4.14
1.75V	79.8	55.6	44.6	25.8	19.9	15.7	8.25	6.31	4.11
1.80V	77.6	54.6	43.9	25.4	19.6	15.5	8.16	6.24	4.08

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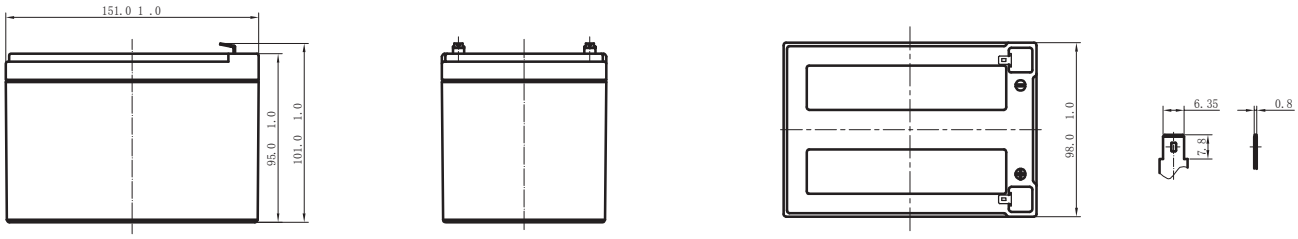
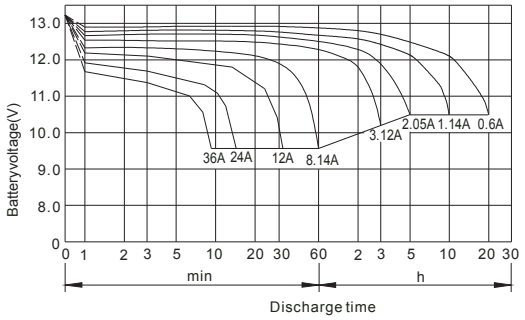
Updated: 07.01.2019

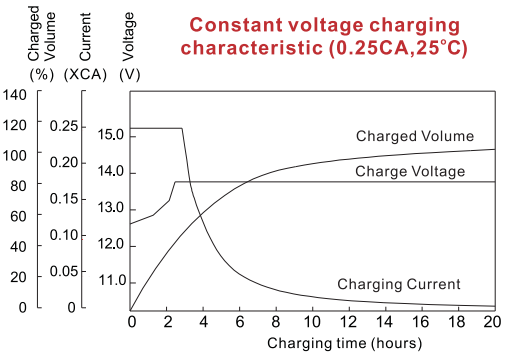
Dimensions



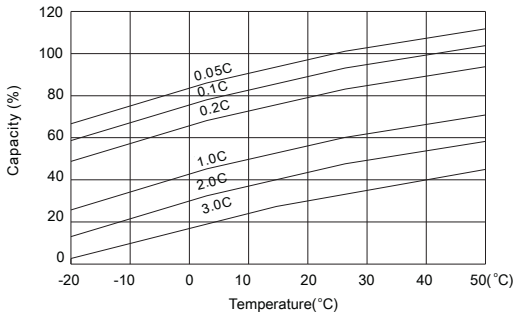
Discharge Characteristics



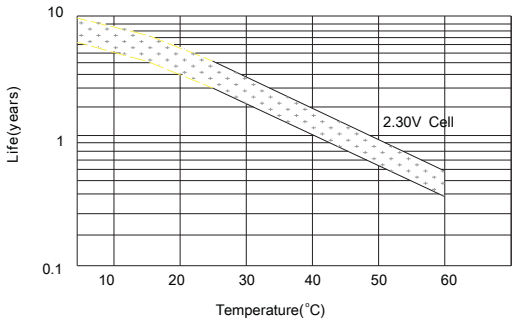
Float Charging Characteristics



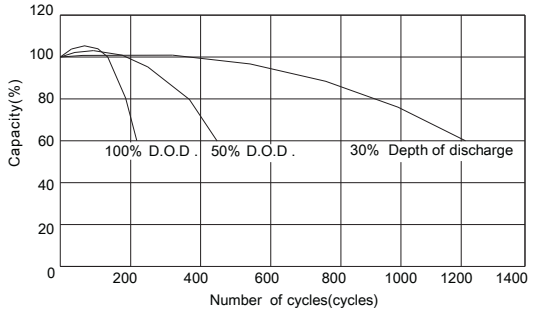
Temperature Effects in Relation to Battery Capacity



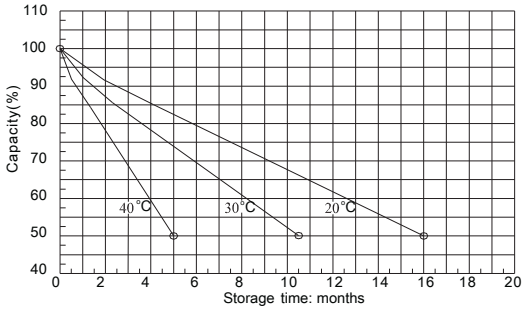
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 18-12i (12V 18AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.75 V/C)	18.0AH	
	20 hour rate (0.85A, 10.5V)	18Ah
	10 hour rate (1.68A, 10.5V)	16.8Ah
	5 hour rate (2.91A, 10.5V)	15.45Ah
	1 hour rate (11.8A, 9.6V)	11.8Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤16.5 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	181 / 7.13
	Width (mm / inch)	77 / 3.03
	Height (mm / inch	167 / 6.57
	Total Height (mm / inch)	167 / 6.57
Approx. Weight (Kg / lbs)	5.3 / 11.7	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~60°C Charge : -10~60°C Storage : -20~60°C	
Max. Discharge Current 68°F(20°C)	255A(5s)	
Short Circuit Current	850A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.30-2.35VPC
	Maximum charging current	6.8A
	Temperature compensation	-30mV/°C
	Standby use	2.23-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	64.9	44.1	34	19.8	11.8	4.57	3.09	1.78	0.89
1.65V	62.8	43	33.3	19.4	11.6	4.5	3.03	1.75	0.88
1.70V	60.5	41.9	32.6	18.9	11.4	4.42	2.97	1.72	0.87
1.75V	58	40.7	31.8	18.4	11.2	4.35	2.91	1.68	0.85
1.80V	55.3	39.4	30.9	17.9	10.9	4.27	2.84	1.65	0.84

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	111	78.6	61.3	35.3	27.4	22.4	13.0	9.09	6.13
1.65V	107	77.2	60.2	34.8	27.1	22.2	12.9	9.01	6.07
1.70V	103	75.8	59.0	34.3	26.8	22.0	12.8	8.92	6.01
1.75V	98.0	74.3	57.8	33.7	26.4	21.7	12.7	8.83	5.95
1.80V	94.0	72.8	56.5	33.1	26.0	21.5	12.5	8.74	5.88

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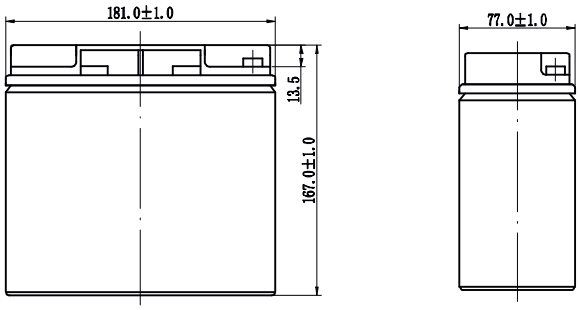
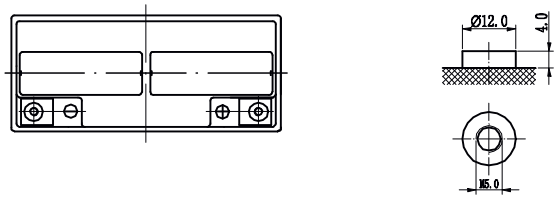
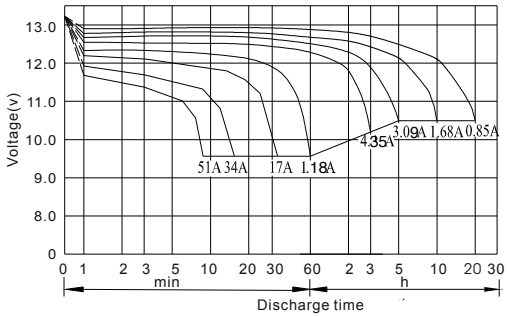
Updated: 07.01.2019

Dimensions

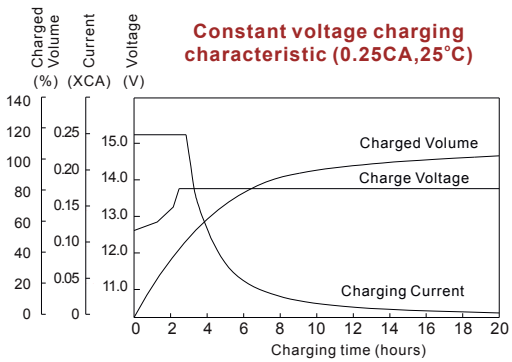




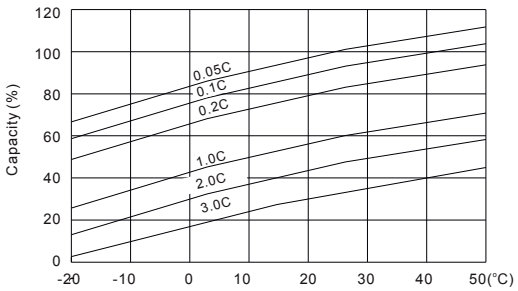
Discharge Characteristics



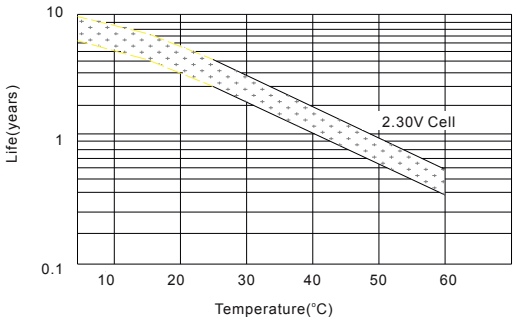
Float Charging Characteristics



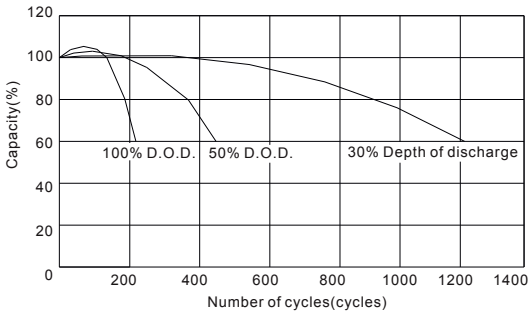
Temperature Effects in Relation to Battery Capacity



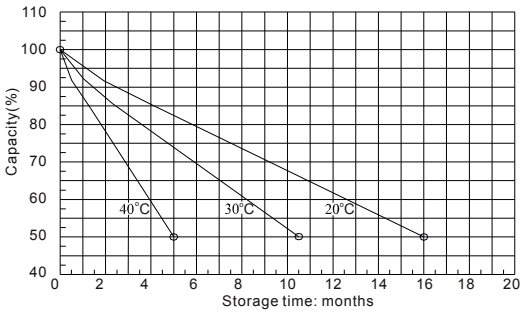
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 26-12i (12V 26AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.75 V/C)	26.0AH	
	20 hour rate (0.85A, 10.5V)	26Ah
	10 hour rate (1.68A, 10.5V)	23.7Ah
	5 hour rate (2.91A, 10.5V)	20.5Ah
	1 hour rate (11.8A, 9.6V)	16Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤12 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	166 / 6.54
	Width (mm / inch)	175 / 6.89
	Height (mm / inch	125 / 4.92
	Total Height (mm / inch)	125 / 4.92
Approx. Weight (Kg / lbs)	8.1 / 17.8	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~60°C Charge : -10~60°C Storage : -20~60°C	
Max. Discharge Current 68°F(20°C)	300A(5s)	
Short Circuit Current	1200A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	9.6A
	Temperature compensation	-30mV/°C
	Standby use	2.23-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	95.0	64.0	48.0	28.5	16.0	6.74	4.47	2.52	1.24
1.65V	90.1	60.9	45.9	27.4	15.4	6.53	4.36	2.47	1.23
1.70V	84.9	57.8	43.7	26.2	14.8	6.30	4.24	2.42	1.22
1.75V	79.7	54.5	41.1	24.9	14.2	6.05	4.10	2.37	1.20
1.80V	74.3	51.3	39.1	23.6	13.5	5.78	3.95	2.31	1.18

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	185	121	90.0	55.0	40.0	31.7	19.6	13.4	8.54
1.65V	173	114	85.1	52.3	38.2	30.3	19.0	13.1	8.39
1.70V	161	107	80.2	49.4	36.3	28.9	18.3	12.5	8.22
1.75V	151	99.7	75.2	46.6	34.3	27.5	17.6	12.0	8.03
1.80V	139	92.7	70.3	43.7	32.3	26.0	16.9	11.4	7.83

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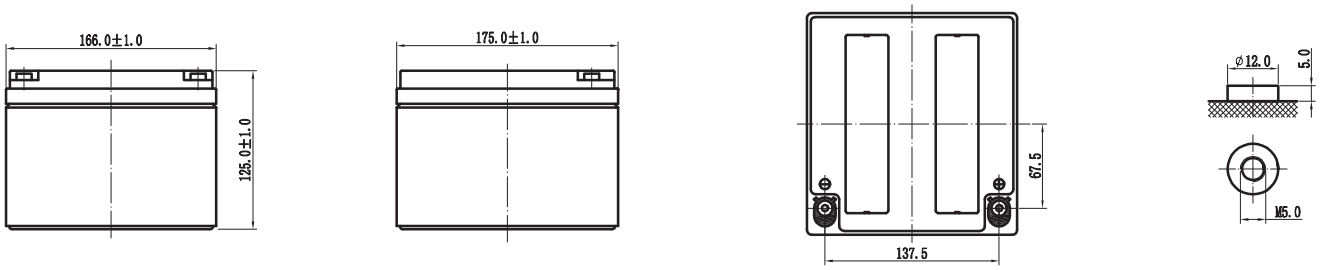
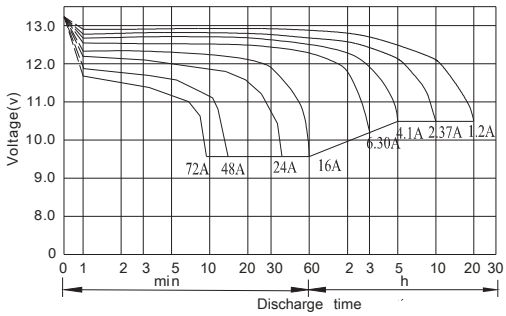
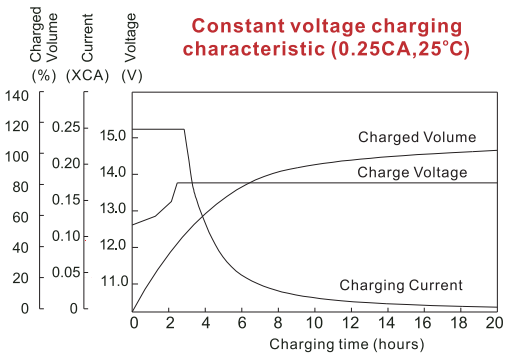
Dimensions



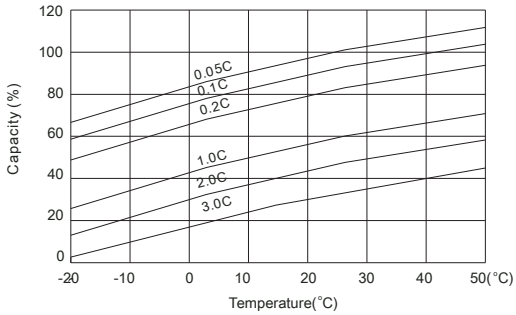
Discharge Characteristics



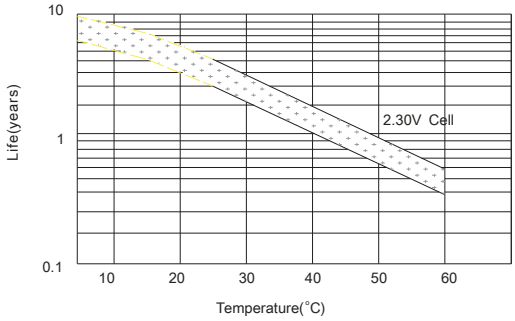
Float Charging Characteristics



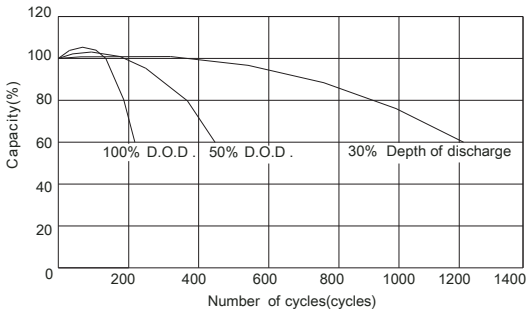
Temperature Effects in Relation to Battery Capacity



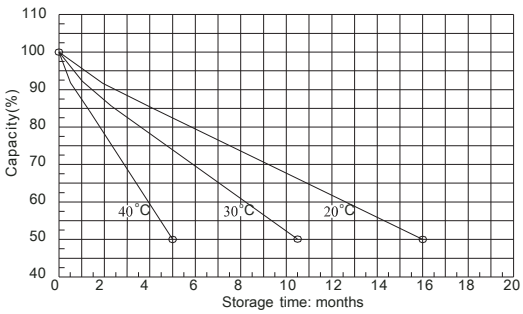
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 28-12i (12V 28AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.75 V/C)	28.0AH	
	20 hour rate (1.2A, 10.5V)	28Ah
	10 hour rate (2.3A, 10.5V)	23Ah
	5 hour rate (4.25A, 10.5V)	21.25Ah
	1 hour rate (14.4A, 9.6V)	14.4Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤12 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	165 / 6.50
	Width (mm / inch)	125 / 4.92
	Height (mm / inch	175 / 6.89
	Total Height (mm / inch)	182 / 7.17
Approx. Weight (Kg / lbs)	8.5 / 18.7	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~60°C Charge : -10~60°C Storage : -20~60°C	
Max. Discharge Current 68°F(20°C)	300A(5s)	
Short Circuit Current	1200A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.30-2.35VPC
	Maximum charging current	9.6A
	Temperature compensation	-30mV/°C
	Standby use	2.23-2.27VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	87.0	60.8	44.7	26.0	14.4	6.63	4.60	2.44	1.24
1.65V	82.5	57.9	42.7	25.0	13.9	6.42	4.50	2.40	1.23
1.70V	77.8	54.9	40.7	23.9	13.3	6.20	4.38	2.35	1.22
1.75V	73.0	51.8	38.6	22.7	12.7	5.95	4.25	2.30	1.20
1.80V	68.1	48.7	36.4	21.5	12.1	5.69	4.10	2.24	1.18

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	172	112	83.7	51.2	37.2	29.5	18.8	12.9	8.17
1.65V	161	106	79.2	48.6	35.5	28.2	18.2	12.6	8.03
1.70V	150	99.3	74.6	46.0	33.7	26.9	17.6	12.3	7.87
1.75V	140	92.7	70.0	43.3	31.9	25.6	16.9	11.9	7.70
1.80V	130	86.2	65.3	40.6	30.0	24.2	16.2	11.5	7.51

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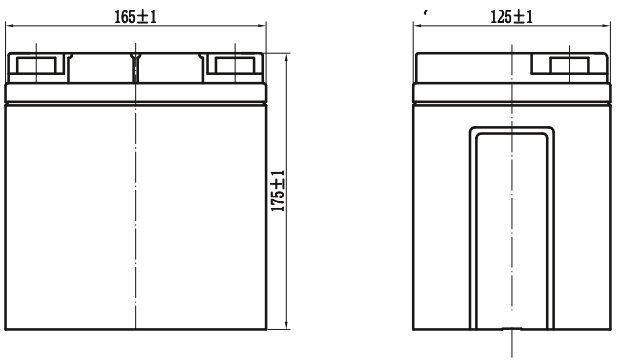
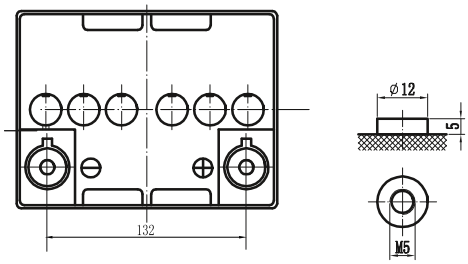
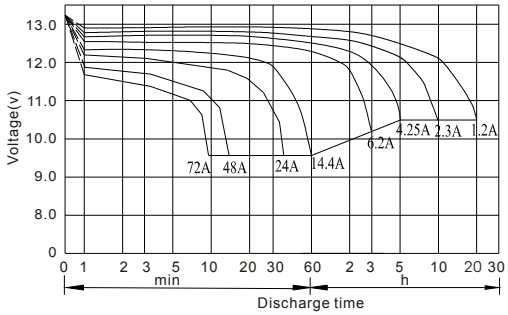
Dimensions

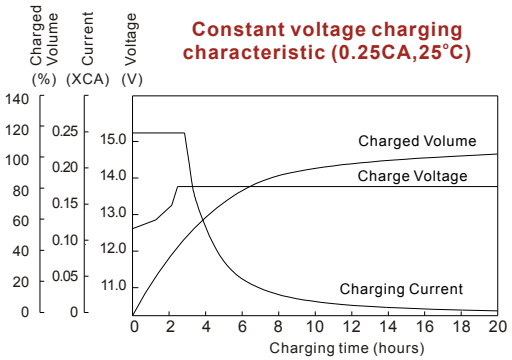




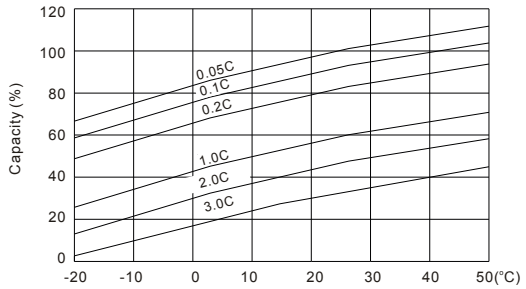
Discharge Characteristics



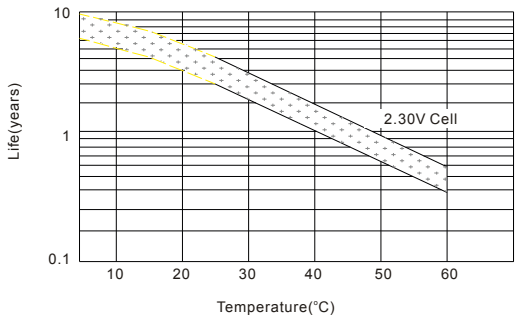
Float Charging Characteristics



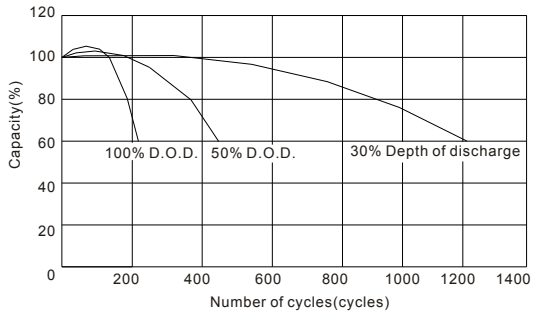
Temperature Effects in Relation to Battery Capacity



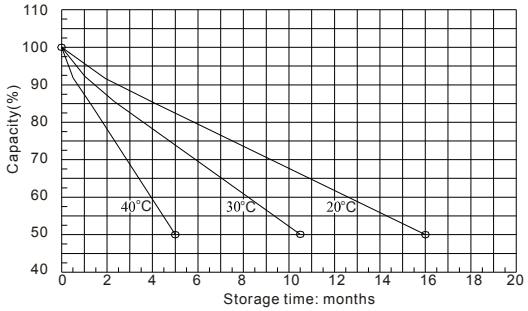
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 33-12i (12V 33AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	33.0AH	
	10 hour rate (3.30A, 10.8V)	33.0Ah
	5 hour rate (5.58A, 10.5V)	27.9Ah
	1 hour rate (22.3A, 9.6V)	22.3Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤19 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	195 / 7.68
	Width (mm / inch)	130 / 5.12
	Height (mm / inch	155 / 6.10
	Total Height (mm / inch)	168 / 6.61
Approx. Weight (Kg / lbs)	9.7 / 21.4	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	330A(5s)	
Short Circuit Current	850A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.4-2.45VPC
	Maximum charging current	9.9A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	69.3	57.1	32.6	22.3	9.08	6.30	3.36	1.81
1.65V	65.0	54.1	31.3	21.9	8.97	6.25	3.35	1.79
1.70V	60.0	51.4	30.4	21.2	8.45	6.15	3.32	1.78
1.75V	56.1	47.8	29.4	20.3	8.25	5.58	3.31	1.76
1.80V	51.4	44.8	28.8	19.8	8.18	5.50	3.30	1.75

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	122	100	65.3	45.5	40.9	23.3	17.4	12.2
1.65V	116	98.6	61.7	44.2	40.5	23.1	17.3	11.9
1.70V	110	95.7	60.0	43.5	39.9	22.6	16.8	11.5
1.75V	104	92.0	58.0	42.5	39.1	21.8	16.0	11.3
1.80V	97.7	89.0	56.0	41.5	38.3	21.0	15.2	11.0

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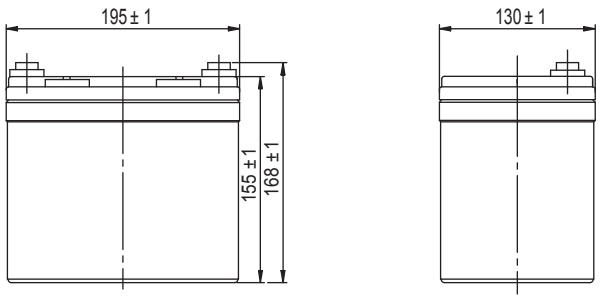
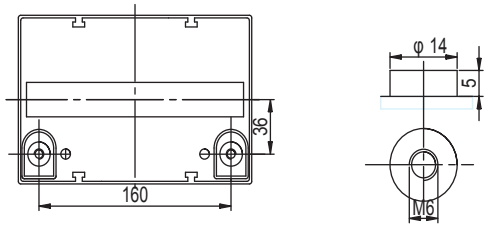
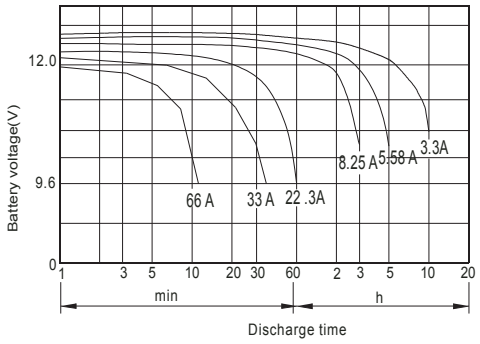
Dimensions

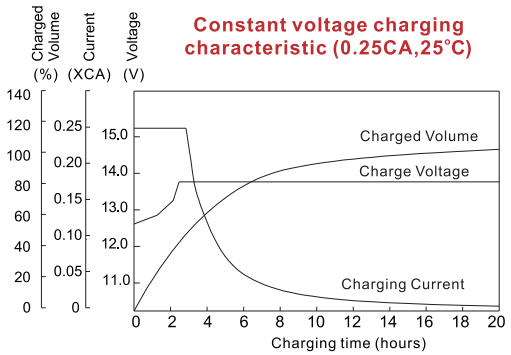




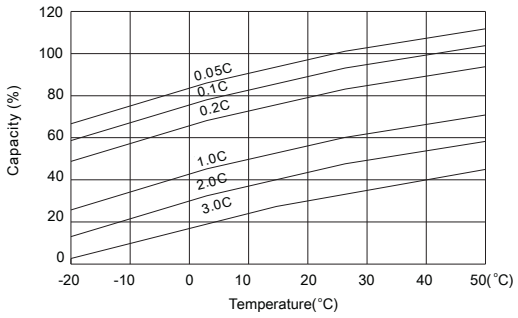
Discharge Characteristics



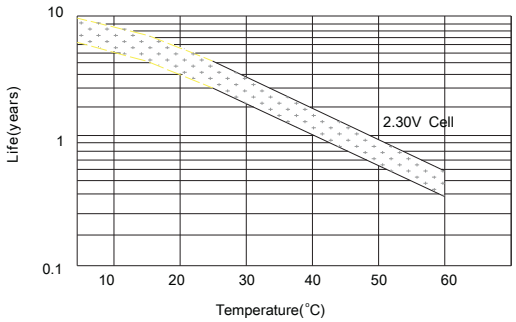
Float Charging Characteristics



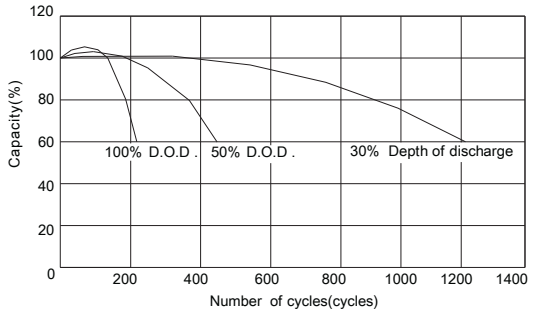
Temperature Effects in Relation to Battery Capacity



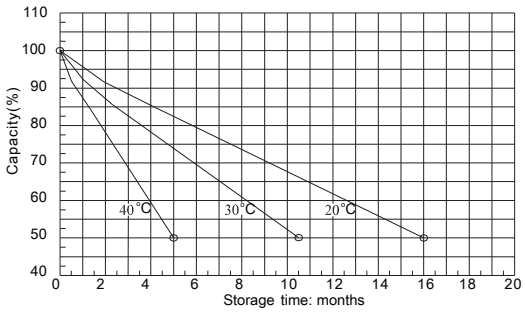
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 40-12i (12V 40AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	40.0AH	
	10 hour rate (4.0A, 10.8V)	40.0Ah
	5 hour rate (6.83A, 10.5V)	34.15Ah
	1 hour rate (24.9A, 9.6V)	24.9Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤19 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	197.5 / 7.78
	Width (mm / inch)	165.5 / 6.52
	Height (mm / inch	170 / 6.69
	Total Height (mm / inch)	170 / 6.69
Approx. Weight (Kg / lbs)	13.8 / 30.4	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	400A(5s)	
Short Circuit Current	900A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	12.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	86.5	70.7	39.9	24.9	10.3	7.22	4.20	2.22
1.65V	82.2	67.1	38.7	24.6	10.1	7.10	4.15	2.20
1.70V	77.8	64.5	37.3	24.2	9.89	6.97	4.10	2.18
1.75V	73.6	61.0	36.1	23.9	9.65	6.83	4.05	2.15
1.80V	69.9	55.2	35.8	23.5	9.43	6.66	4.00	2.11

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	158	124	81.2	60.2	49.9	27.5	21.0	14.0
1.65V	152	120	78.8	59.0	49.2	27.1	20.7	13.8
1.70V	144	117	76.3	57.8	48.3	26.6	20.3	13.6
1.75V	138	113	73.8	56.6	47.5	26.2	20.0	13.4
1.80V	130	109	71.3	55.4	46.7	25.8	19.6	13.3

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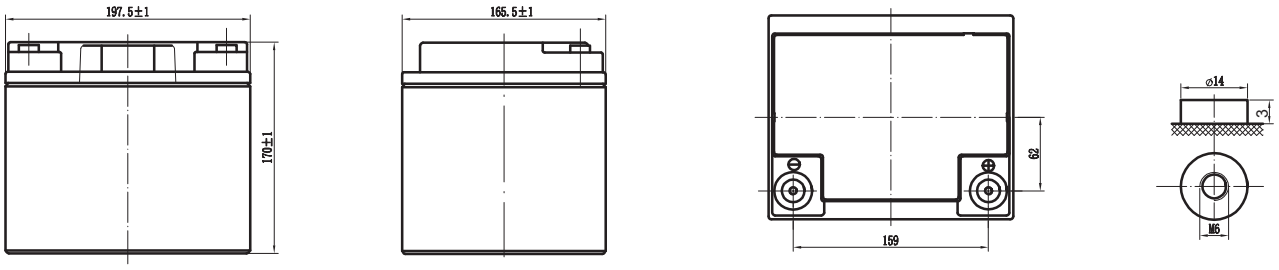
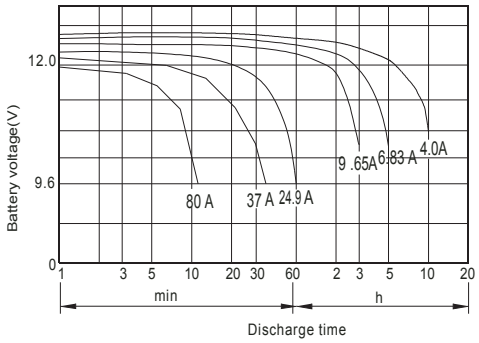
Updated: 07.01.2019

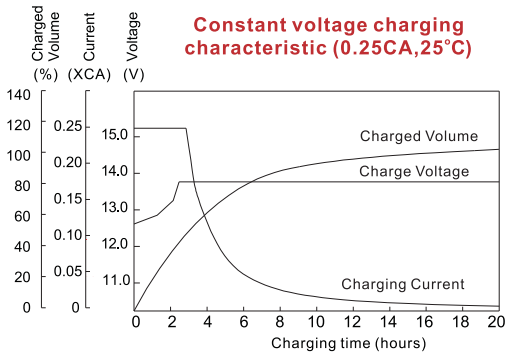
Dimensions



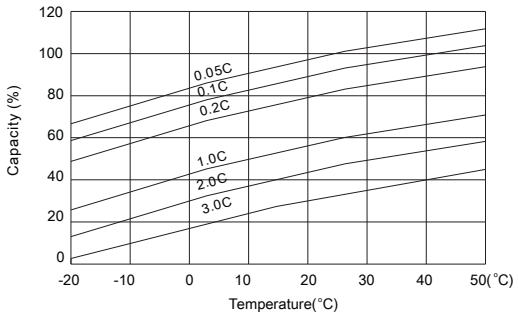
Discharge Characteristics



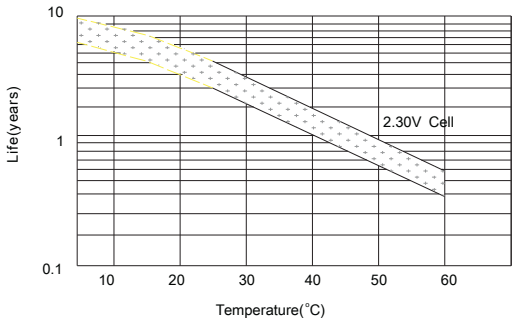
Float Charging Characteristics



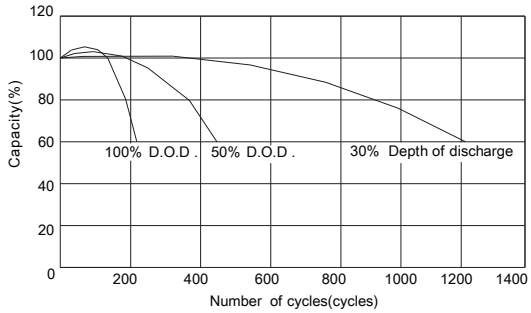
Temperature Effects in Relation to Battery Capacity



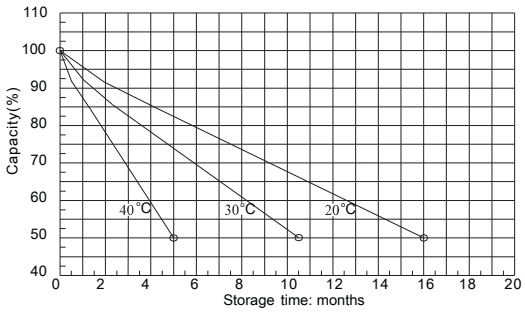
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 55-12i (12V 55AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	55.0AH	
	10 hour rate (5.5A, 10.8V)	55.0Ah
	5 hour rate (9.23A, 10.5V)	46.15Ah
	1 hour rate (35.1A, 9.6V)	35.1Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤7.2 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	229 / 9.01
	Width (mm / inch)	138 / 5.43
	Height (mm / inch	208 / 8.18
	Total Height (mm / inch)	213 / 8.38
Approx. Weight (Kg / lbs)	18.0 / 39.7	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	550A(5s)	
Short Circuit Current	1400A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	16.5A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	137	103	61.9	36.9	15.2	10.1	5.76	2.98
1.65V	131	99.2	60.0	35.9	14.8	9.81	5.71	2.97
1.70V	125	94.2	58.1	35.0	14.5	9.64	5.66	2.96
1.75V	118	89.2	56.2	34.1	14.1	9.46	5.61	2.94
1.80V	109	82.7	54.2	33.3	13.8	9.29	5.50	2.91

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	262	196	117	88.7	72.3	42.9	30.3	19.5
1.65V	251	188	115	87.3	70.7	42.0	29.6	19.2
1.70V	239	179	113	85.6	69.1	41.2	29.0	18.7
1.75V	229	172	111	83.4	67.5	40.1	28.4	18.5
1.80V	218	163	110	81.5	65.7	39.1	27.4	18.4

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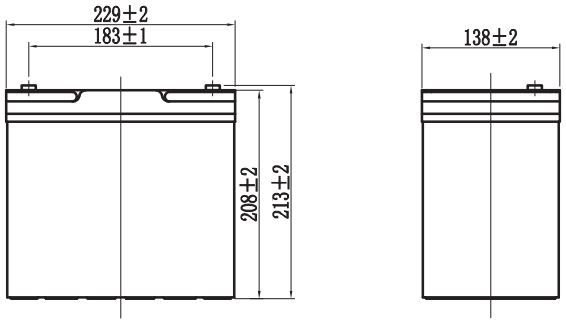
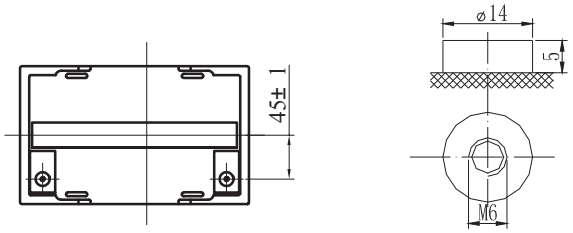
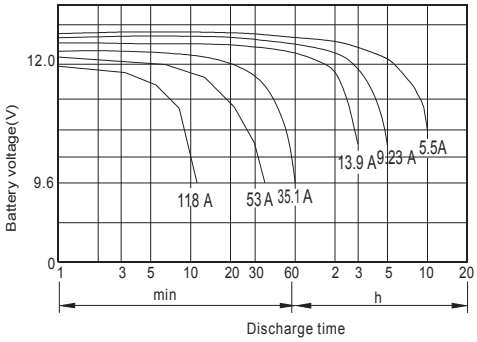
Updated: 07.01.2019

Dimensions

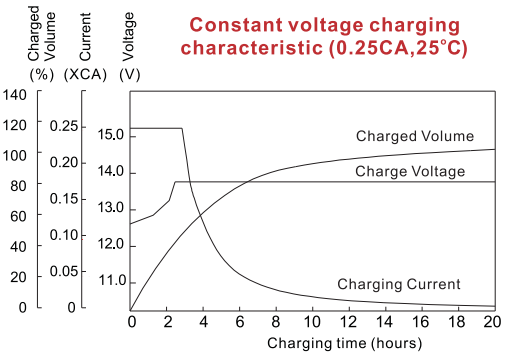




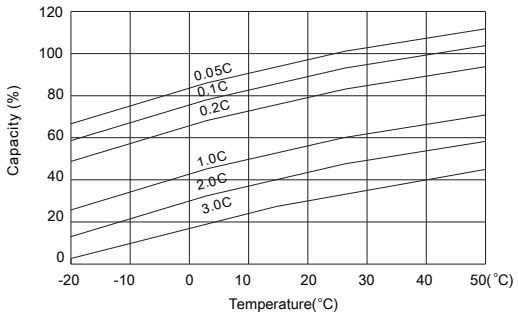
Discharge Characteristics



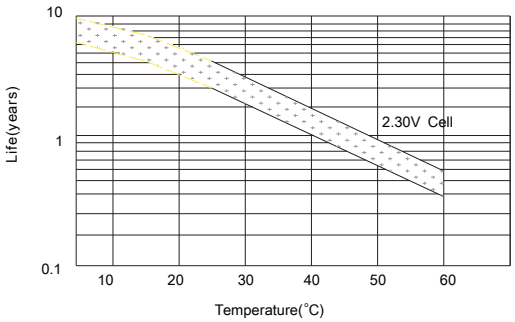
Float Charging Characteristics



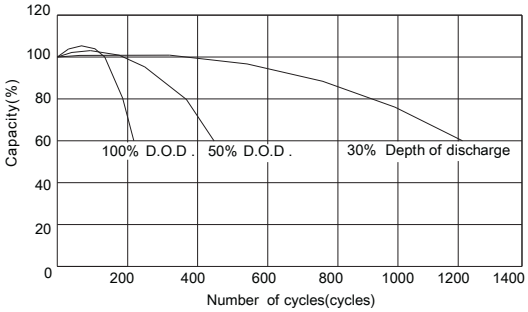
Temperature Effects in Relation to Battery Capacity



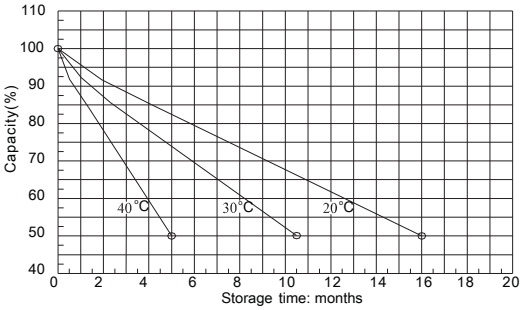
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 60-12i (12V 60AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	60.0AH	
	20 hour rate (3.1A, 10.8V)	62.0Ah
	10 hour rate (6.0A, 10.8V)	60.0Ah
	5 hour rate (10.5A, 10.5V)	52.5Ah
	1 hour rate (40.3A, 9.6V)	40.3Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤7.0 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	258 /10.16
	Width (mm / inch)	166 / 6.54
	Height (mm / inch	206 / 8.11
	Total Height (mm / inch)	215 / 8.46
Approx. Weight (Kg / lbs)	20.7 / 45.6	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	600A(5s)	
Short Circuit Current	1450A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	18.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	137	108	63.7	40.3	16.2	11.2	6.40	3.30
1.65V	132	103	61.8	39.3	15.8	10.9	6.30	3.25
1.70V	122	98.2	59.9	38.3	15.4	10.7	6.20	3.20
1.75V	113	92.9	57.9	37.3	15.0	10.5	6.10	3.15
1.80V	103	86.0	55.8	36.5	14.7	10.3	6.00	3.10

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	243	187	113	91.3	75.7	45.9	33.0	22.1
1.65V	237	183	112	89.8	73.9	44.9	32.3	21.9
1.70V	223	180	110	88.0	72.2	43.9	31.6	21.5
1.75V	210	177	108	86.0	70.6	42.9	30.9	21.3
1.80V	196	168	106	83.8	68.7	41.7	30.2	21.1

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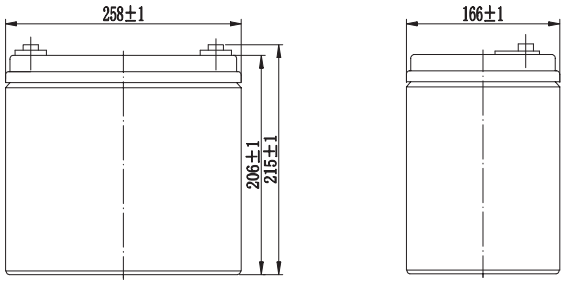
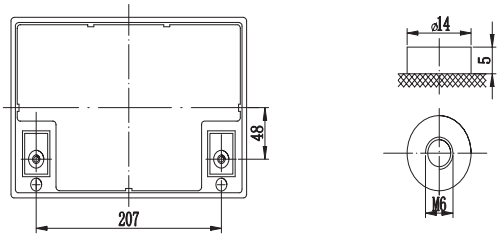
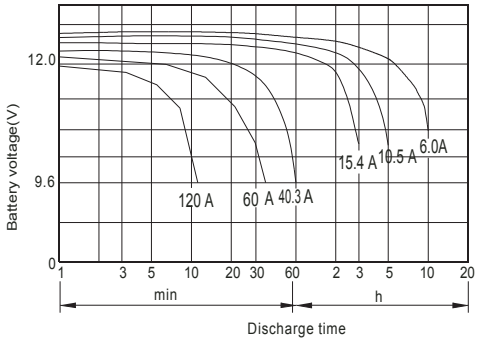
Dimensions

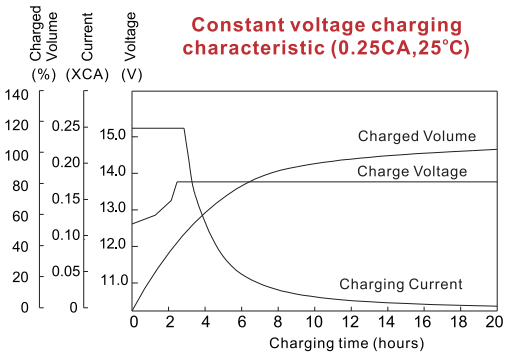




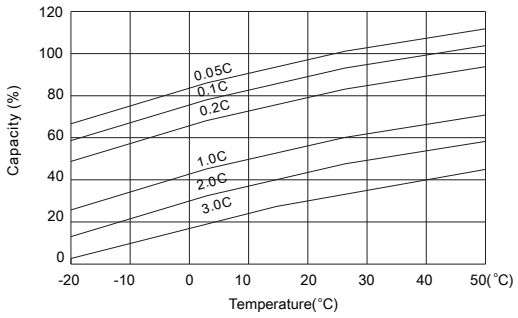
Discharge Characteristics



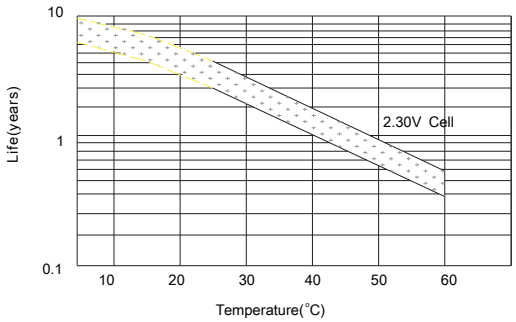
Float Charging Characteristics



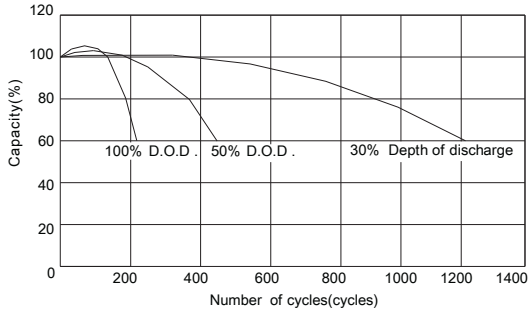
Temperature Effects in Relation to Battery Capacity



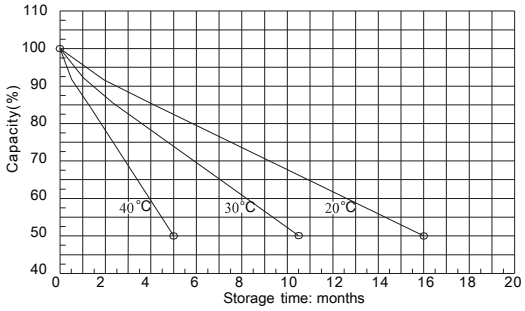
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 65-12i (12V 65AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	65.0AH	
	10 hour rate (6.5A, 10.8V)	65.0Ah
	5 hour rate (11A, 10.5V)	55.0Ah
	1 hour rate (45.1A, 9.6V)	45.1Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤6.8 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	350 / 13.8
	Width (mm / inch)	167 / 6.57
	Height (mm / inch	179 / 7.05
	Total Height (mm / inch)	179 / 7.05
Approx. Weight (Kg / lbs)	20.4 / 45.0	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	650A(5s)	
Short Circuit Current	1700A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	18.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
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- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

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Discharge Constant Current (Amperes at 68°F20°C)

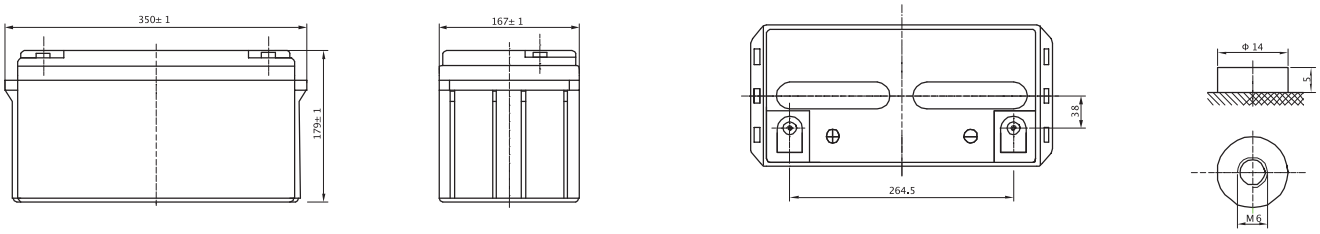
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	212	151	126	75.4	45.1	18.4	11.8	6.70	3.48
1.65V	201	144	121	73.3	44.0	18.0	11.6	6.58	3.46
1.70V	189	137	115	71.3	43.0	17.6	11.3	6.56	3.44
1.75V	177	129	109	69.2	41.9	17.2	11.0	6.53	3.42
1.80V	164	120	102	66.9	41.0	16.9	10.7	6.50	3.40

Discharge Constant Current (Watts at 68°F20°C)

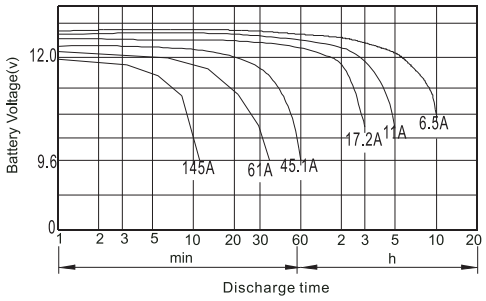
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	378	275	207	129	99.1	81.8	47.5	33.8	22.5
1.65V	356	261	203	128	97.6	80.0	46.6	33.2	22.3
1.70V	335	246	200	127	95.7	78.3	45.6	32.5	22.0
1.75V	314	231	196	124	93.6	76.5	44.5	31.8	21.7
1.80V	302	215	187	122	91.3	75.7	43.3	31.1	21.4

Updated: 13.02.2019

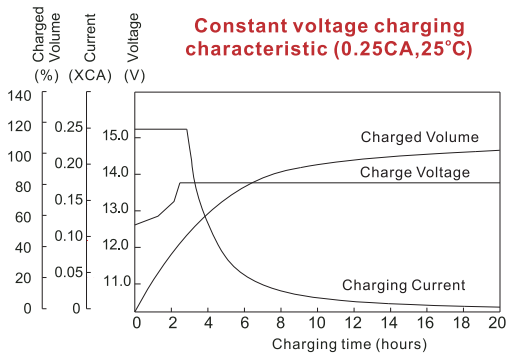
Dimensions



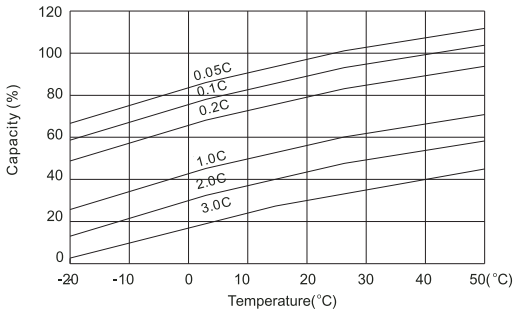
Discharge Characteristics



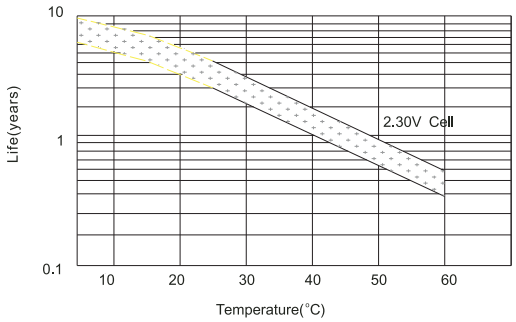
Float Charging Characteristics



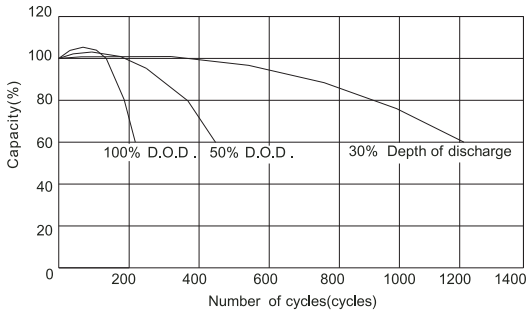
Temperature Effects in Relation to Battery Capacity



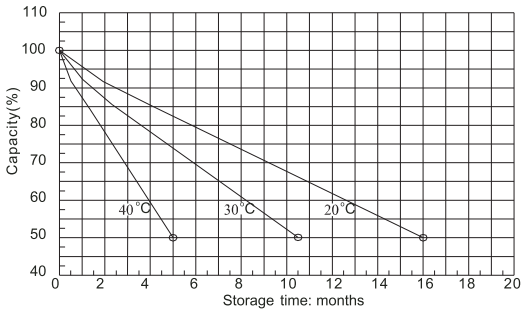
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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SSB SBL 75-12i (12V 75AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	75.0AH	
	10 hour rate (7.50A, 10.8V)	75.0Ah
	5 hour rate (13.6A, 10.5V)	68.0Ah
	1 hour rate (51.2A, 9.6V)	51.2Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤6.6 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	258 / 10.16
	Width (mm / inch)	166 / 6.54
	Height (mm / inch	210 / 8.27
	Total Height (mm / inch)	215 / 8.46
Approx. Weight (Kg / lbs)	24.0 / 52.9	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	700A(5s)	
Short Circuit Current	1800A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	22.5A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	182	140	83.4	51.2	22.1	14.4	7.67	4.05
1.65V	172	134	73.9	48.5	21.7	14.2	7.65	4.02
1.70V	161	124	78.5	47.8	46.2	14.0	7.60	3.98
1.75V	154	119	75.1	46.2	20.9	13.6	7.55	3.96
1.80V	142	114	74.6	44.3	20.1	13.4	7.50	3.94

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	320	251	161	122	97.6	54.7	41.0	27.3
1.65V	306	246	156	120	95.5	53.5	40.0	27.1
1.70V	296	242	148	113	91.6	51.3	39.7	26.5
1.75V	279	227	145	113	88.2	49.4	39.1	26.5
1.80V	266	216	144	108	85.9	48.1	38.8	26.3

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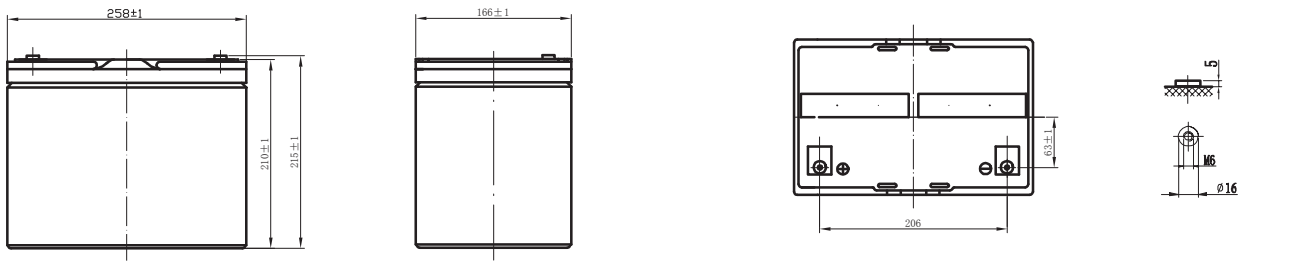
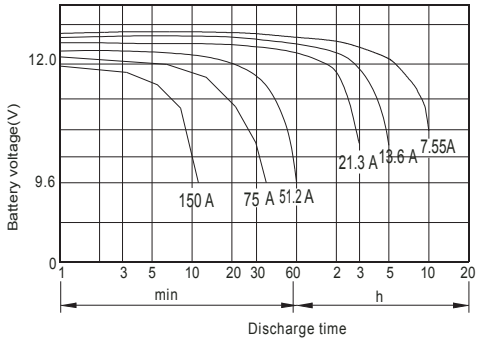
Updated: 07.01.2019

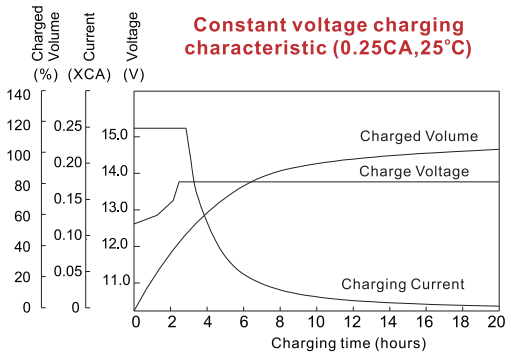
Dimensions



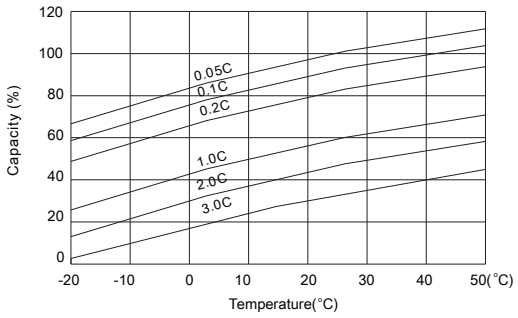
Discharge Characteristics



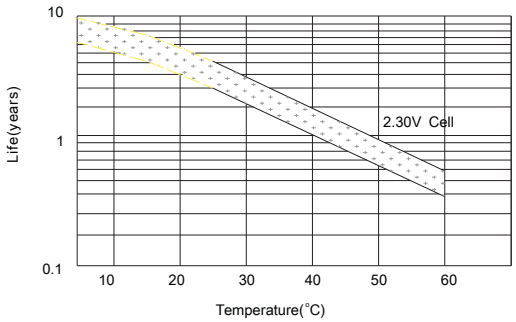
Float Charging Characteristics



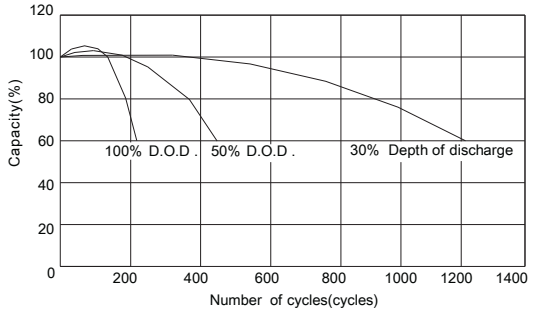
Temperature Effects in Relation to Battery Capacity



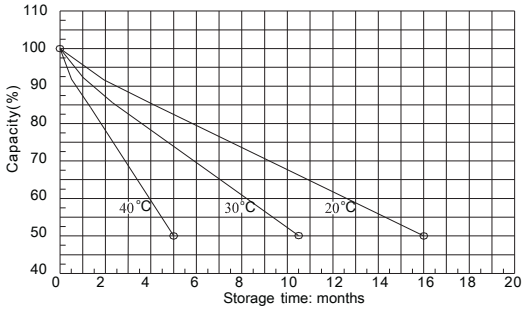
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 80-12i (12V 80AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.80 V/C)	80.0AH	
	10 hour rate (8.0A, 10.8V)	80.0Ah
	5 hour rate (14.4A, 10.5V)	72.0Ah
	1 hour rate (53.7A, 9.6V)	53.7Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤6.5 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	350 / 13.8
	Width (mm / inch)	167 / 6.57
	Height (mm / inch	179 / 7.05
	Total Height (mm / inch)	179 / 7.05
Approx. Weight (Kg / lbs)	22.5 / 49.6	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	750A(5s)	
Short Circuit Current	1900A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	24.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

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Discharge Constant Current (Amperes at 68°F20°C)

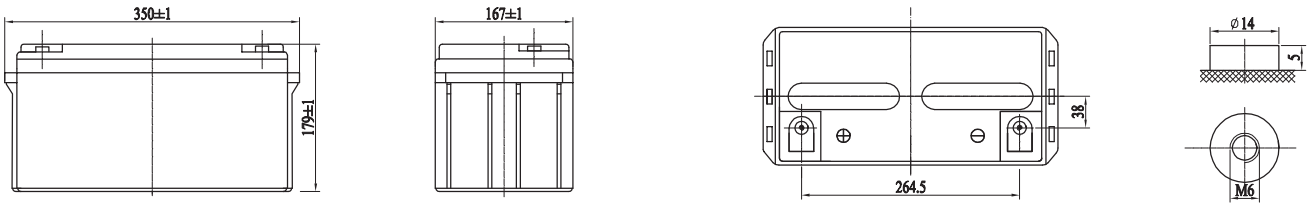
End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	-	149	87.3	66.2	53.7	22.7	15.0	8.20
1.65V	-	137	83.0	62.2	51.6	22.5	14.7	8.15
1.70V	-	132	80.3	61.0	49.8	22.4	14.7	8.10
1.75V	-	126	77.6	57.3	47.1	21.8	14.4	8.05
1.80V	-	118	75.0	55.9	46.3	20.7	14.1	8.00

Discharge Constant Current (Watts at 68°F20°C)

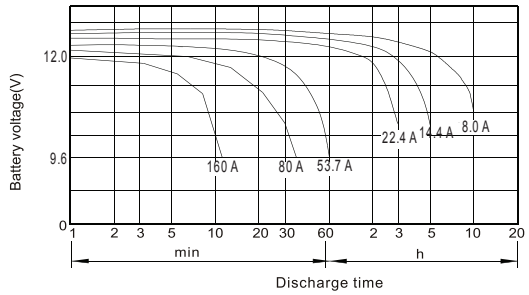
End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	-	258	165	124	98.6	56.5	42.5	27.9
1.65V	-	250	157	122	97.8	55.3	41.1	27.4
1.70V	-	246	151	117	93.8	53.7	40.4	27.0
1.75V	-	232	149	114	92.3	53.0	39.9	26.8
1.80V	-	218	146	111	88.5	51.4	39.0	26.4

Updated: 07.01.2019

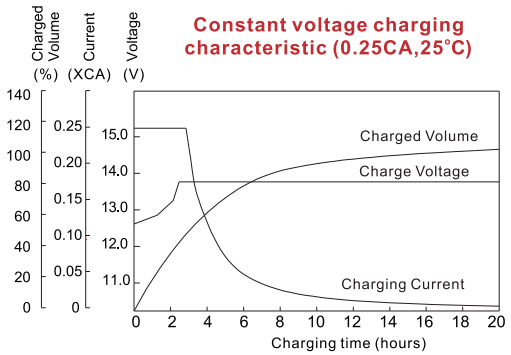
Dimensions



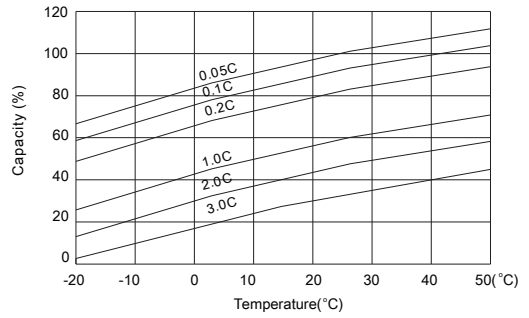
Discharge Characteristics



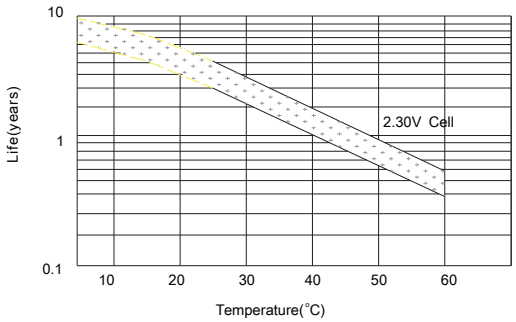
Float Charging Characteristics



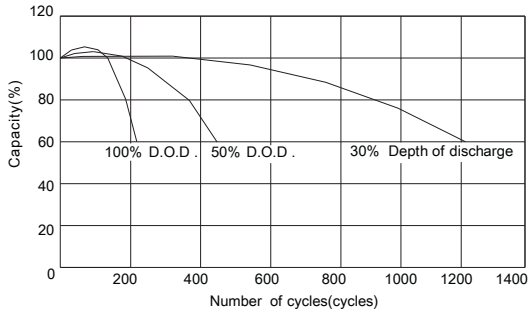
Temperature Effects in Relation to Battery Capacity



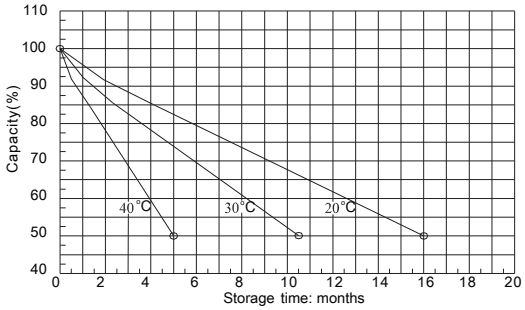
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 100-12i (12V 100AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.80 V/C)	100.0AH	
	10 hour rate (10.0A, 10.8V)	100.0Ah
	5 hour rate (16.6A, 10.5V)	83.0Ah
	1 hour rate (61.0A, 9.6V)	61.0Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤5.7 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	330 / 12.99
	Width (mm / inch)	171 / 6.73
	Height (mm / inch	215 / 8.46
	Total Height (mm / inch)	222 / 8.74
Approx. Weight (Kg / lbs)	29 / 63.9	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	750A(5s)	
Short Circuit Current	1900A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	30.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	-	-	98.9	-	61.0	25.1	17.6	10.8	5.50
1.65V	-	-	95.0	-	60.6	24.6	17.3	10.6	5.45
1.70V	-	-	92.2	-	59.7	24.1	17.0	10.4	5.40
1.75V	-	-	89.3	-	58.9	23.5	16.6	10.2	5.35
1.80V	-	-	87.4	-	57.1	22.8	16.3	10.0	5.30

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	-	-	186	138	119	68.2	48.4	33.8	
1.65V	-	-	180	134	117	67.0	47.8	33.6	
1.70V	-	-	176	132	116	65.8	47.3	33.3	
1.75V	-	-	170	129	112	64.6	46.7	33.2	
1.80V	-	-	164	126	109	63.9	45.9	32.9	

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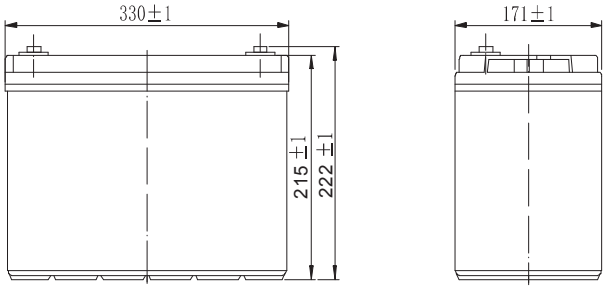
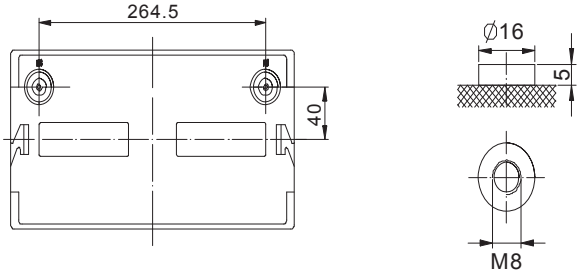
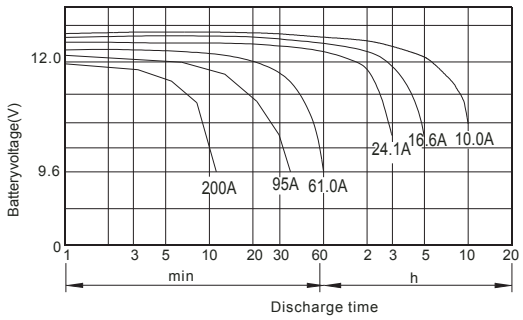
Updated: 07.01.2019

Dimensions

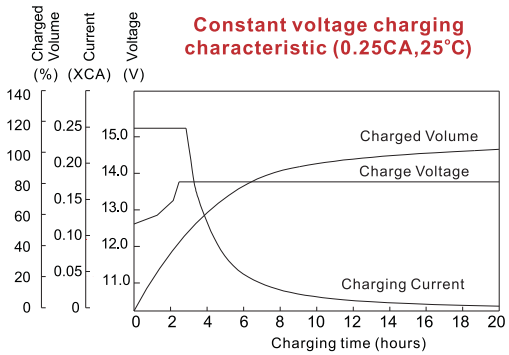




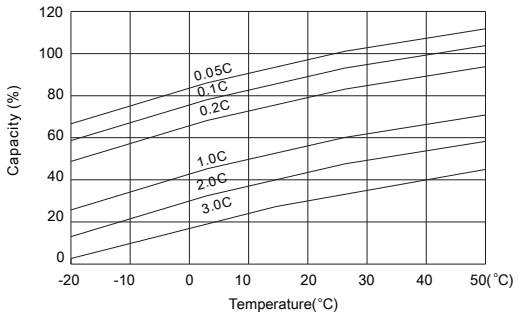
Discharge Characteristics



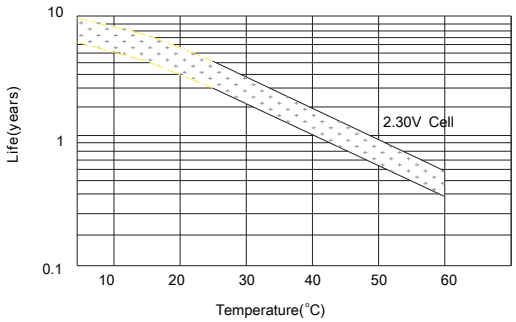
Float Charging Characteristics



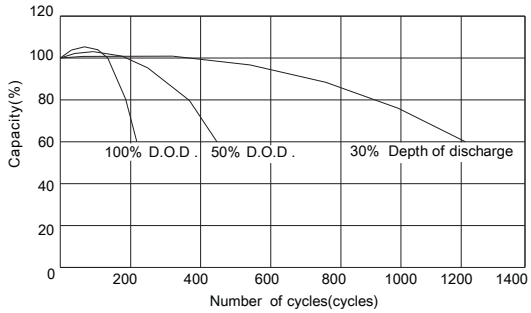
Temperature Effects in Relation to Battery Capacity



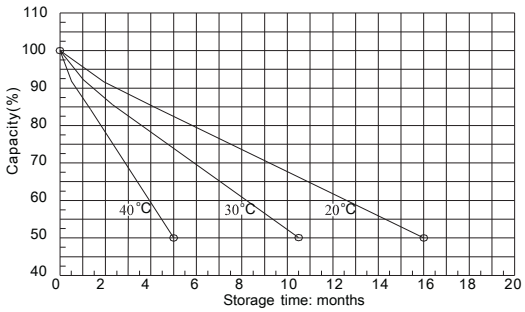
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 120-12i (12V 120AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.80 V/C)	120.0AH	
	10 hour rate (12.0A, 10.8V)	120.0Ah
	5 hour rate (18.7A, 10.5V)	93.5Ah
	1 hour rate (71.6A, 9.6V)	71.6Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤5.3 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	330 / 12.99
	Width (mm / inch)	171 / 6.73
	Height (mm / inch	215 / 8.46
	Total Height (mm / inch)	222 / 8.74
Approx. Weight (Kg / lbs)	32.5 / 71.6	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	950A(5s)	
Short Circuit Current	2250A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	36.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

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Discharge Constant Current (Amperes at 68°F20°C)

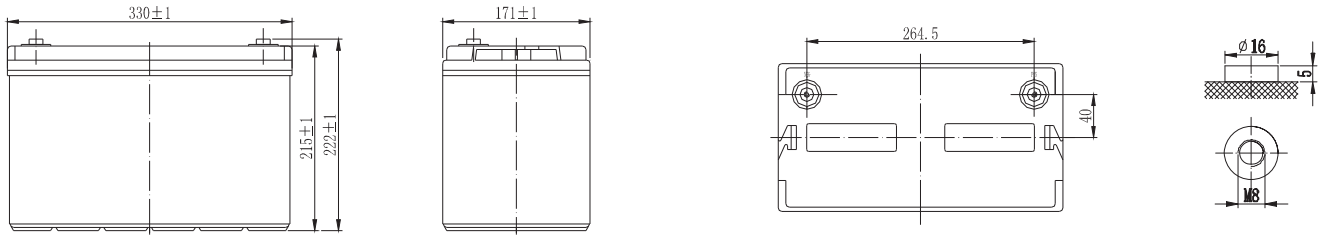
End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	250	203	120	-	71.6	28.9	19.2	12.4	6.55
1.65V	237	195	116	-	71.1	28.3	19.0	12.3	6.50
1.70V	223	187	112	-	69.7	27.7	18.8	12.2	6.44
1.75V	210	179	108	-	67.5	27.1	18.7	12.1	6.38
1.80V	197	171	106	-	65.4	26.3	18.5	12.0	6.30

Discharge Constant Current (Watts at 68°F20°C)

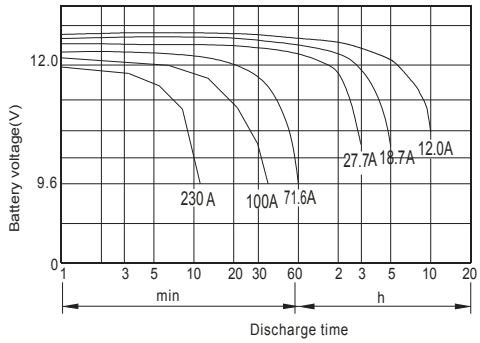
End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	449	370	227	157	145	77.8	56.1	38.1	
1.65V	426	358	220	153	143	76.4	55.4	37.9	
1.70V	404	346	213	150	141	75.0	54.8	37.6	
1.75V	383	334	206	146	137	73.6	54.1	37.4	
1.80V	358	322	199	143	133	72.9	53.2	37.0	

Updated: 07.01.2019

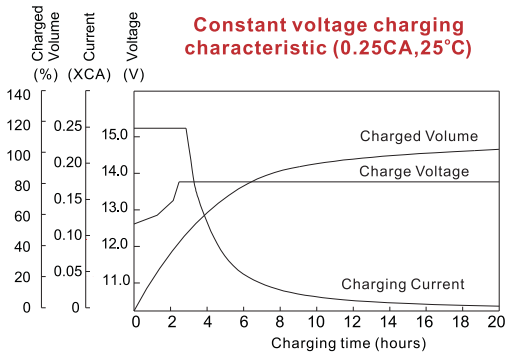
Dimensions



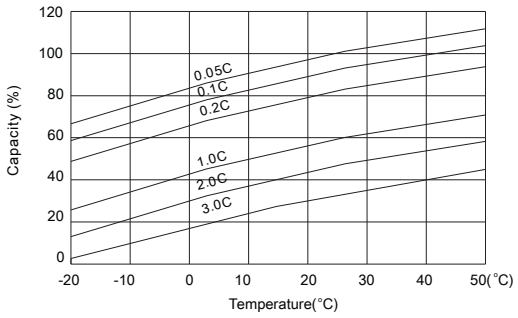
Discharge Characteristics



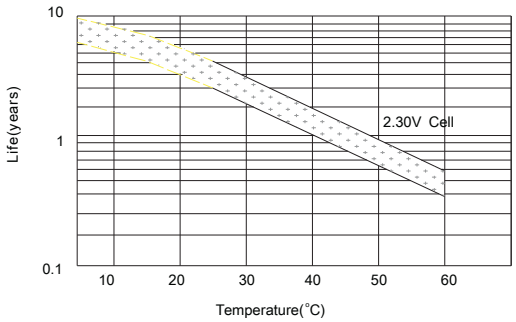
Float Charging Characteristics



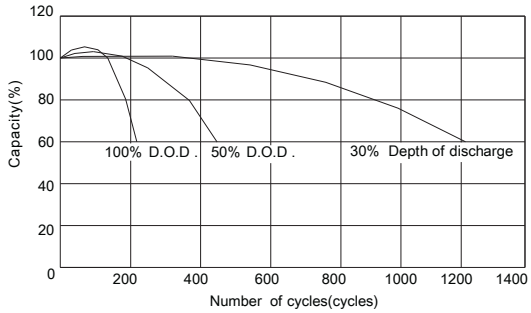
Temperature Effects in Relation to Battery Capacity



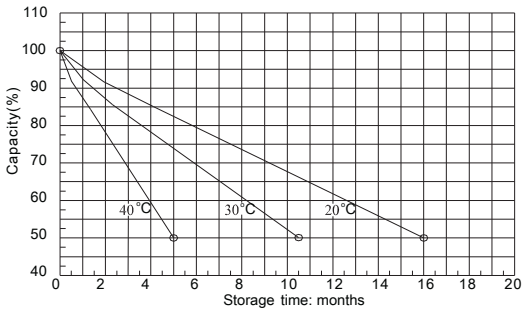
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 134R-12i (12V 134AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	134.0AH	
	10 hour rate (13.4A, 10.8V)	134.0Ah
	5 hour rate (23.6A, 10.5V)	118.0Ah
	1 hour rate (86.5A, 9.6V)	86.5Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤5.0 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	341 / 13.4
	Width (mm / inch)	173 / 6.81
	Height (mm / inch	283 / 11.1
	Total Height (mm / inch)	287 / 11.3
Approx. Weight (Kg / lbs)	40.0 / 88.2	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	950A(5s)	
Short Circuit Current	2500A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	40.2A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	314	248	147	107	86.5	38.2	25.6	13.6	-
1.65V	292	237	145	105	84.3	37.4	25.0	13.6	-
1.70V	280	231	142	102	82.1	36.8	24.3	13.5	-
1.75V	257	214	139	99.8	80.2	36.1	23.6	13.5	-
1.80V	235	197	134	96.7	78.0	35.2	23.0	13.4	-

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	566	474	287	206	163	94.6	71.8	47.4	-
1.65V	529	433	261	200	158	92.2	70.3	47.0	-
1.70V	512	427	258	195	154	90.6	69.5	45.9	-
1.75V	483	414	254	192	152	89.5	68.6	44.8	-
1.80V	448	391	247	189	150	88.7	68.2	44.0	-

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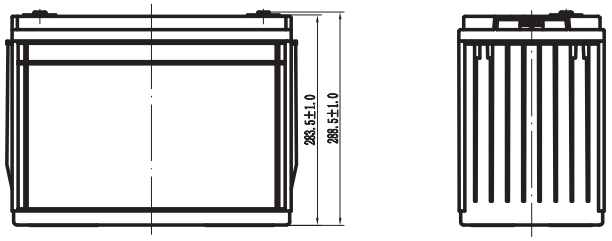
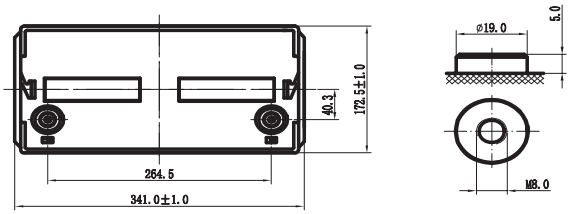
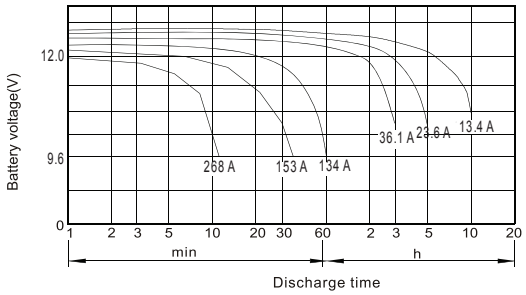
Updated: 13.02.2019

Dimensions

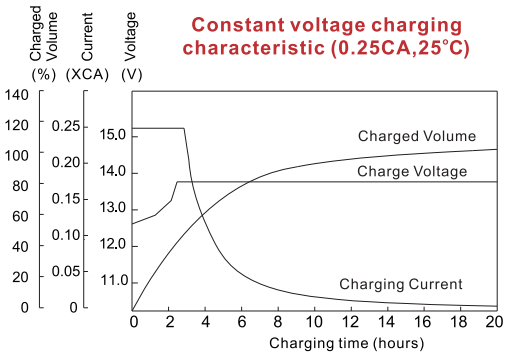




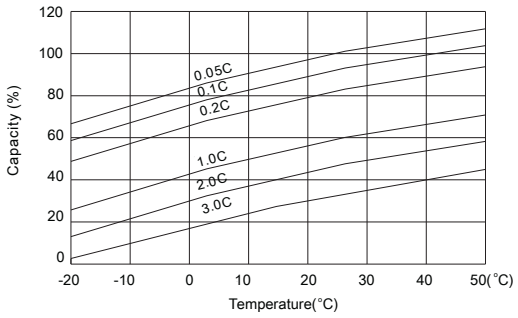
Discharge Characteristics



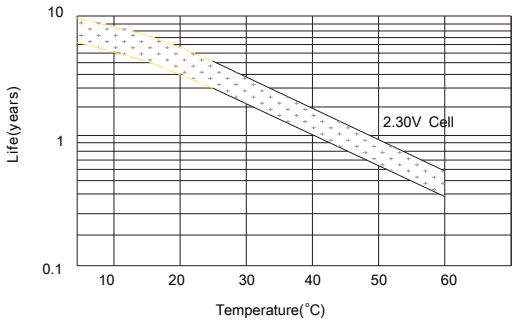
Float Charging Characteristics



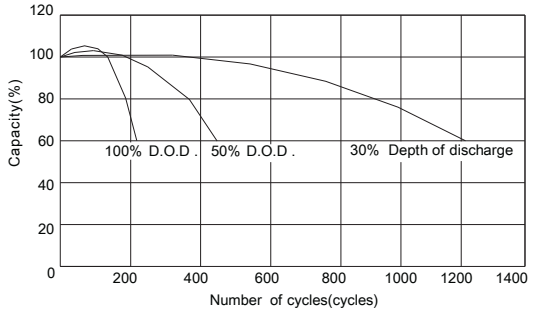
Temperature Effects in Relation to Battery Capacity



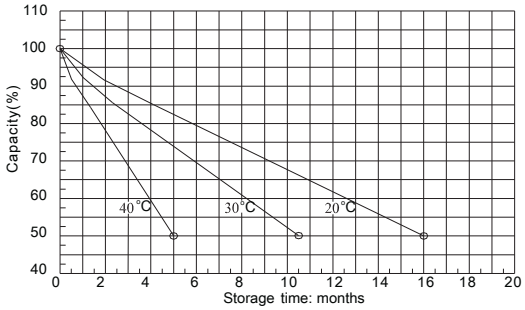
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 150-12i (12V 150AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.80 V/C)	150.0AH	
	10 hour rate (15.0A, 10.8V)	150.0Ah
	5 hour rate (24.5A, 10.5V)	122.5Ah
	1 hour rate (103.0A, 9.6V)	103.0Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤3.5 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	482 / 19.0
	Width (mm / inch)	170 / 6.69
	Height (mm / inch	240 / 9.45
	Total Height (mm / inch)	240 / 9.45
Approx. Weight (Kg / lbs)	44.8 / 98.8	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	970A(5s)	
Short Circuit Current	2800A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	40.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	-	-	186	-	103	42.9	27.6	15.4	8.07
1.65V	-	-	177	-	98.7	41.1	26.4	15.3	8.03
1.70V	-	-	167	-	94.1	39.3	25.3	15.2	7.98
1.75V	-	-	158	-	89.2	37.4	24.5	15.1	7.93
1.80V	-	-	153	-	87.2	36.7	23.7	15.0	7.88

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	-	-	329	241	186	109	79.2	53.7	-
1.65V	-	-	318	234	182	107	77.2	52.4	-
1.70V	-	-	308	227	178	104	75.2	51.0	-
1.75V	-	-	297	220	174	101	73.3	50.0	-
1.80V	-	-	286	212	170	97.6	71.3	48.8	-

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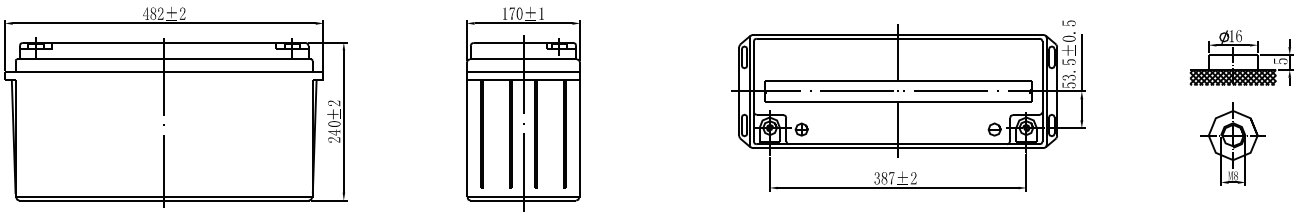
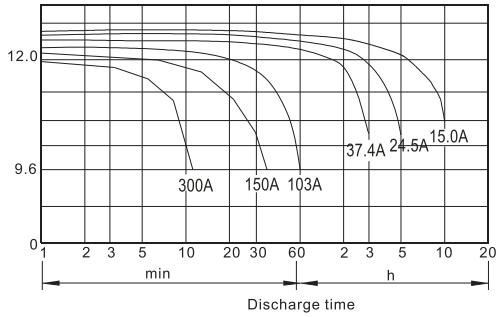
Updated: 07.01.2019

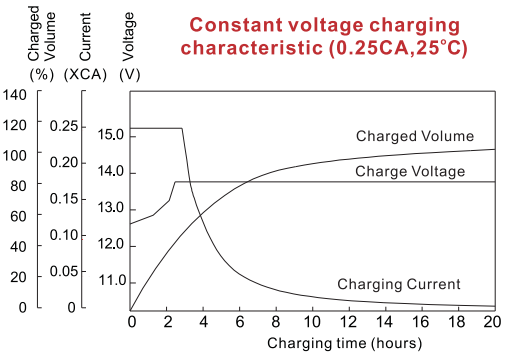
Dimensions



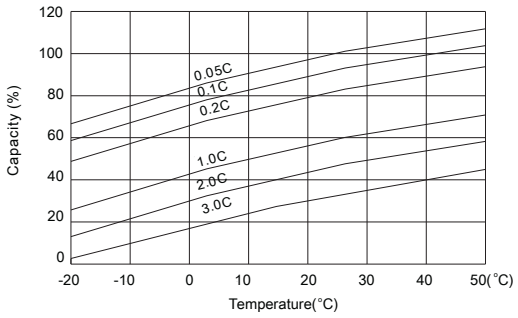
Discharge Characteristics



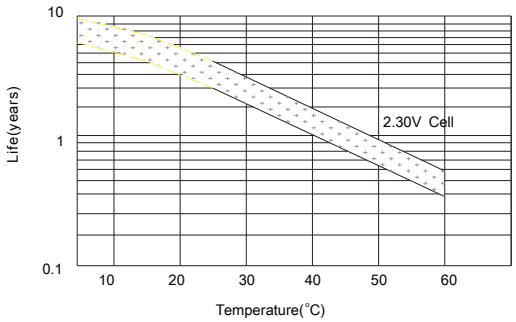
Float Charging Characteristics



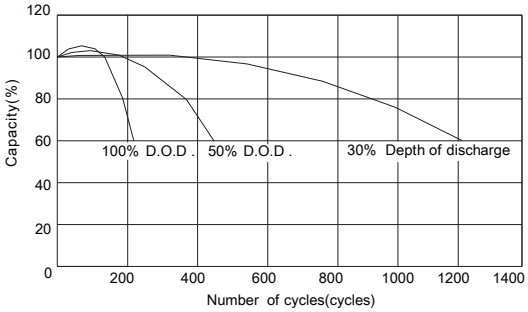
Temperature Effects in Relation to Battery Capacity



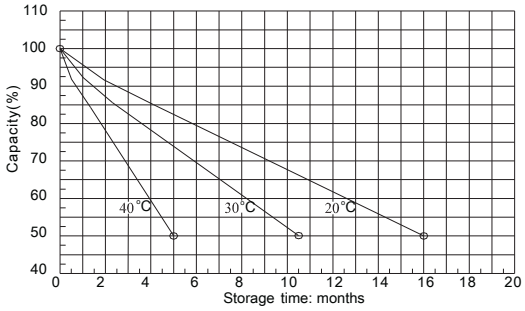
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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INDUSTRIESTRASSE 2
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SSB SBL 200-12i (12V 200AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (20hr / 20°C / 1.80 V/C)	200.0AH	
	10 hour rate (20.0A, 10.8V)	200.0Ah
	5 hour rate (34.7A, 10.5V)	173.5Ah
	1 hour rate (129.0A, 9.6V)	129.0Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤4.0 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	522 / 20.55
	Width (mm / inch)	238 / 9.37
	Height (mm / inch	218 / 8.58
	Total Height (mm / inch)	223 / 8.78
Approx. Weight (Kg / lbs)	59.1 / 130	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	1000A(5s)	
Short Circuit Current	3300A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	60.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.28VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	-	-	196	-	129	50.3	36.9	21.1	10.70
1.65V	-	-	188	-	126	49.1	36.2	20.9	10.65
1.70V	-	-	181	-	123	48.2	35.4	20.7	10.60
1.75V	-	-	175	-	120	47.1	34.7	20.4	10.55
1.80V	-	-	168	-	117	45.7	33.9	20.0	10.50

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	-	-	374	268	248	137	97.4	70.3	-
1.65V	-	-	360	262	243	134	96.1	69.7	-
1.70V	-	-	347	257	238	131	94.8	69.1	-
1.75V	-	-	332	252	233	128	93.4	68.6	-
1.80V	-	-	319	247	228	124	92.4	68.1	-

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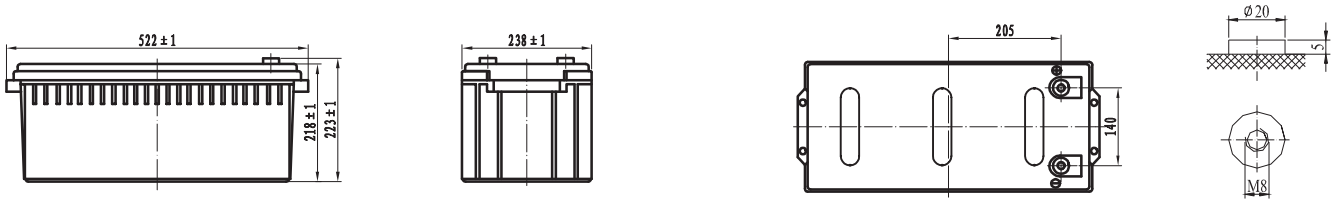
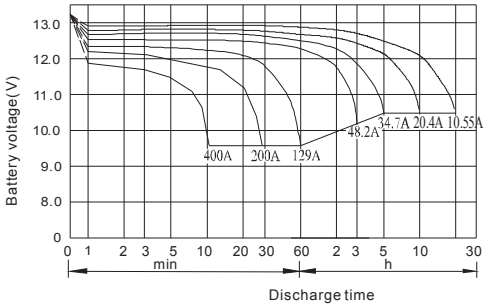
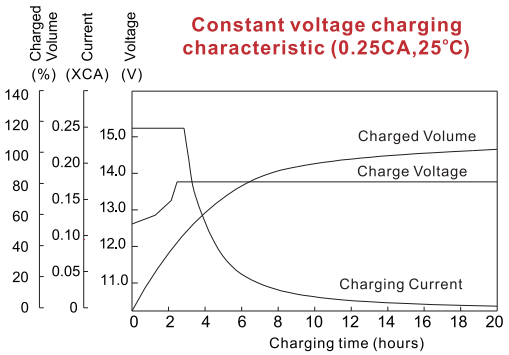
Dimensions



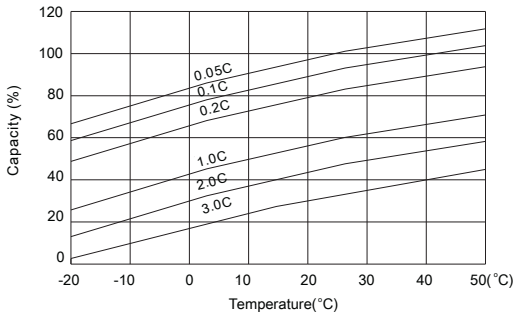
Discharge Characteristics



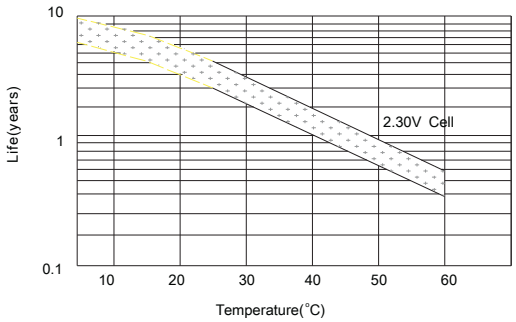
Float Charging Characteristics



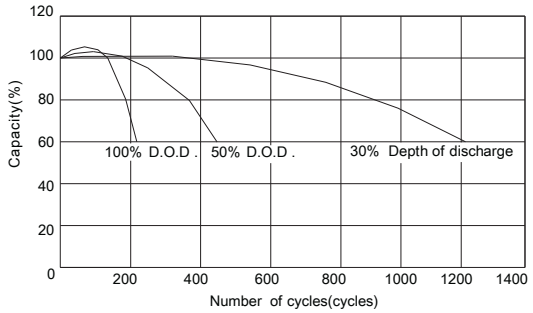
Temperature Effects in Relation to Battery Capacity



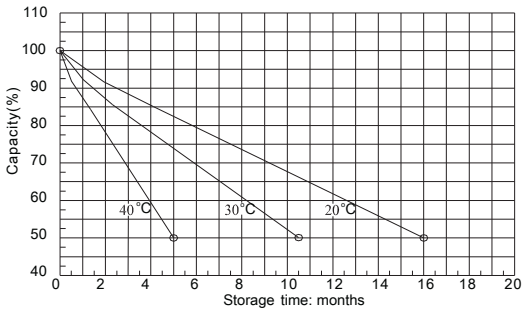
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 260-12i (12V 260AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	260.0AH	
	10 hour rate (26.0A, 10.8V)	260.0Ah
	5 hour rate (43.5A, 10.5V)	217.5Ah
	3 hour rate (66.3A, 10.5V)	198.9Ah
	1 hour rate (160.0A, 9.6V)	160.0Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤3.0 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	520 / 20.5
	Width (mm / inch)	269 / 10.6
	Height (mm / inch	227 / 8.7
	Total Height (mm / inch)	227 / 8.9
Approx. Weight (Kg / lbs)	74.0 / 163.1	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	1250A(5s)	
Short Circuit Current	4300A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	75.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

MH45680 | ISO14001 | Intertek ETL SEMKO

ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	-	463	274	195	160	72.3	47.2	26.6	-
1.65V	-	430	258	186	153	69.5	45.5	26.4	-
1.70V	-	415	252	182	150	68.3	44.8	26.3	-
1.75V	-	386	240	178	146	66.3	43.5	26.2	-
1.80V	-	357	229	176	142	64.2	42.5	26.0	-

Discharge Constant Current (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	10h
1.60V	-	810	497	361	300	182	135	91.0	-
1.65V	-	770	475	347	291	175	133	88.2	-
1.70V	-	747	465	343	285	172	131	87.0	-
1.75V	-	705	449	332	278	165	127	85.2	-
1.80V	-	660	434	325	268	160	123	83.2	-

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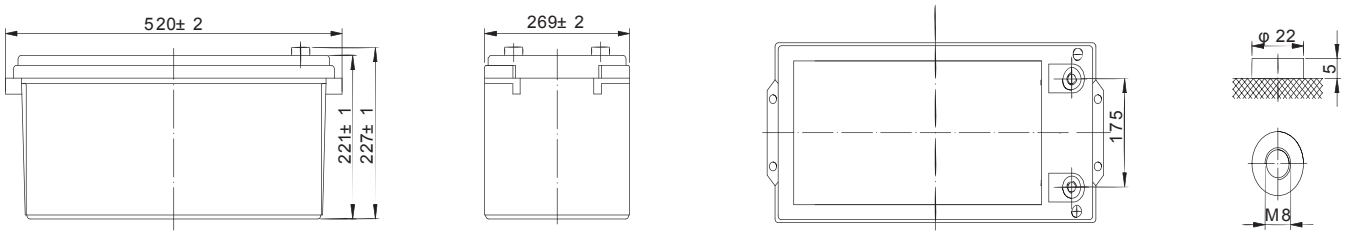
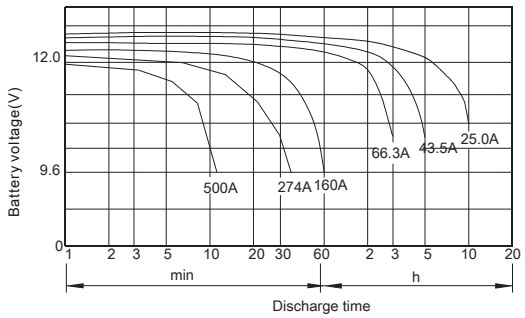
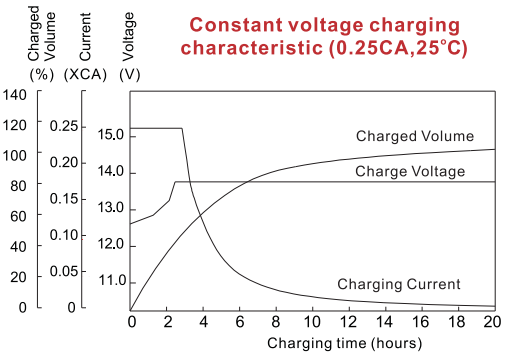
Dimensions



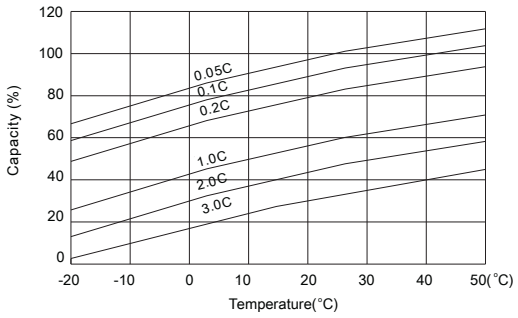
Discharge Characteristics



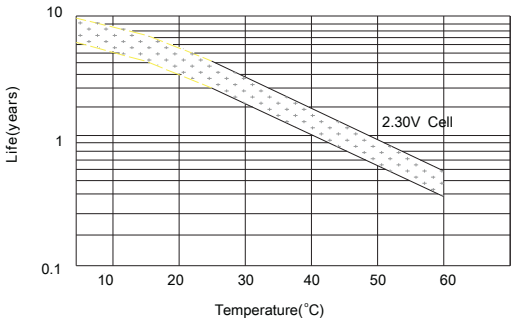
Float Charging Characteristics



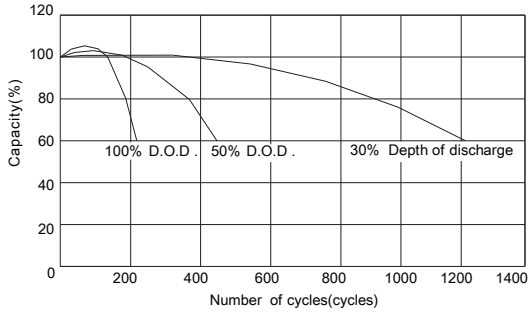
Temperature Effects in Relation to Battery Capacity



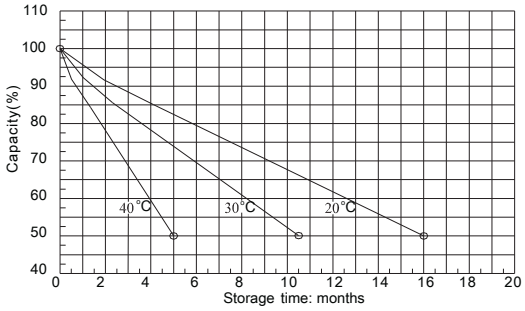
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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SSB SBL 260-12i (sh) (12V 260AH)

Specification

Nominal Voltage	12V	
Nominal Capacity (10hr / 20°C / 1.80 V/C)	260.0AH	
	10 hour rate (26.0A, 10.8V)	260.0Ah
	5 hour rate (43.5A, 10.5V)	217.5Ah
	3 hour rate (66.3A, 10.5V)	198.9Ah
	1 hour rate (160.0A, 9.6V)	160.0Ah
Internal Resistance	Fully Charged battery 68°F(20°C)	≤3.0 mOhms
Self-Discharge	3% of capacity declined per month at 20°C (average) SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Dimension	Length (mm / inch)	520 / 20.5
	Width (mm / inch)	269 / 10.6
	Height (mm / inch	227 / 8.7
	Total Height (mm / inch)	227 / 8.9
Approx. Weight (Kg / lbs)	74.0 / 163.1	
Operating Temperature Range (temporarily – see our manual)	Discharge : -20~50°C Charge : -10~50°C Storage : -20~50°C	
Max. Discharge Current 68°F(20°C)	1250A(5s)	
Short Circuit Current	4300A	
Charge Methods: Constant Voltage Charge 68°F(20°C)	Cycle use	2.40-2.45VPC
	Maximum charging current	75.0A
	Temperature compensation	-30mV/°C
	Standby use	2.20-2.30VPC
	Temperature compensation	-20mV/°C
Life expectancy	10~12 years at 20°C with charge voltage 2.25V/cell	

Applications

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.*
- *Not restricted for air transport-complies with IATA/ICAO Special Provision A67.*
- *UL-recognized component.*
- *Can be mounted in any orientation.*
- *Computer designed lead, calcium tin alloy grid for high power density.*
- *Long service life, float or cyclic applications.*
- *Maintenance-free operation.*
- *Low self discharge.*
- *Case and cover available in both standard and flame retardant ABS.*

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ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	-	463	274	195	160	72.3	47.2	26.6	-
1.65V	-	430	258	186	153	69.5	45.5	26.4	-
1.70V	-	415	252	182	150	68.3	44.8	26.3	-
1.75V	-	386	240	178	146	66.3	43.5	26.2	-
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Discharge Constant Current (Watts at 68°F20°C)

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1.75V	-	705	449	332	278	165	127	85.2	-
1.80V	-	660	434	325	268	160	123	83.2	-

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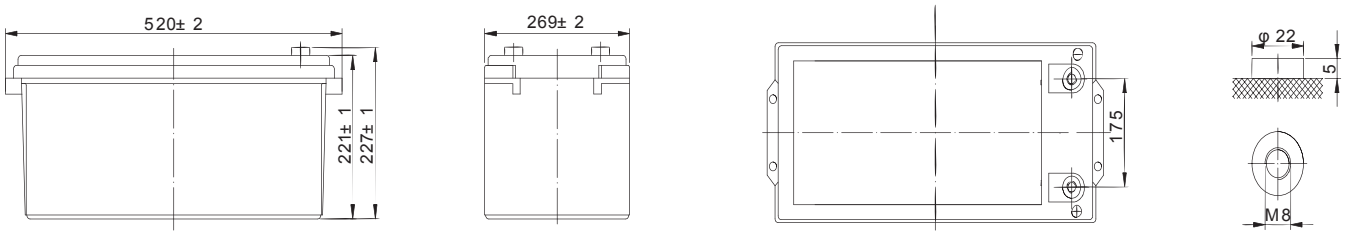
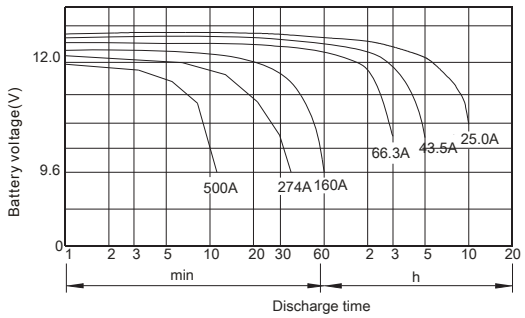
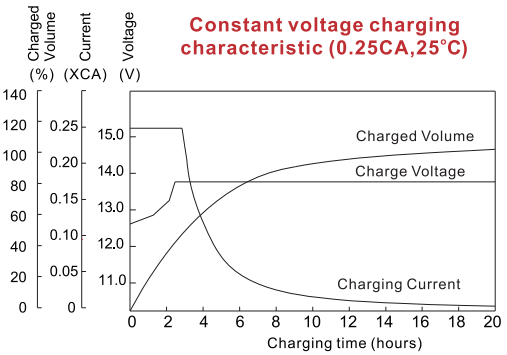
Dimensions



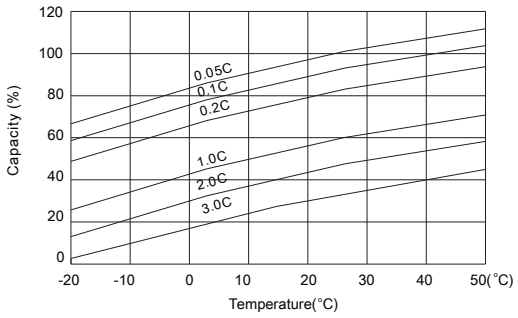
Discharge Characteristics



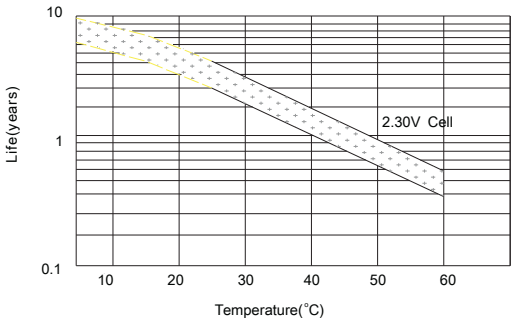
Float Charging Characteristics



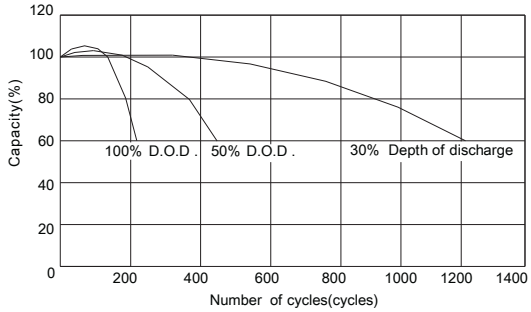
Temperature Effects in Relation to Battery Capacity



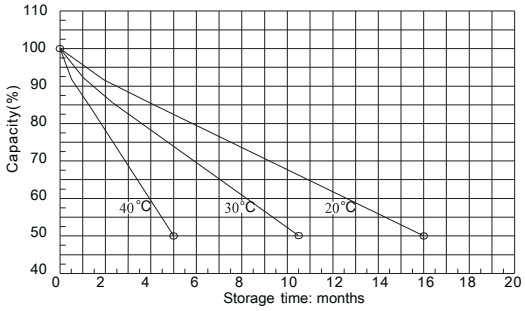
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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