SBRA12-80(12V80Ah)

SKANBATT

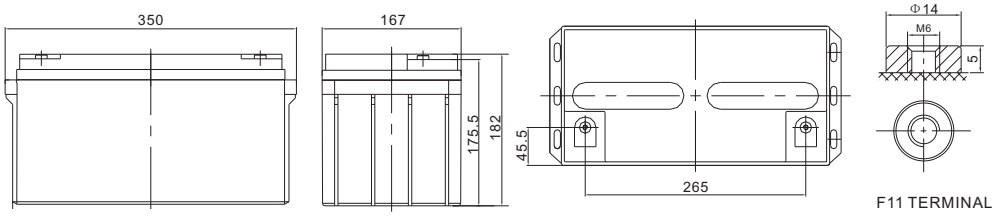
Specification

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	80Ah@10hour-rate to 1.80V per cell @25℃
Weight	Approx. 21.5 Kg (Tolerance±5.0%)
Internal Resistance	≤6.0 mΩ (Full Charge Condition @25℃)
Terminal	Default F11(M6), F5(M8) Optional
Max. Discharge Current	800A (5 sec)
Short Circuit Current	1840A
Design Life	12 years
Max. Charging Current	24.0 A
Reference Capacity	C_3 60.0Ah C_5 68.0Ah C_{10} 80.0Ah C_{20} 84.8Ah
Float Charging Voltage	13.5 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

SKANBATT SBRA series is a general purpose battery with 12 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the SBRA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, Telecom, power grid, medical equipment, emergency light and security system applications.

ISO 9001 ISO 14001 ISO 45001

Dimensions



Length	350±2mm (13.8 inches)
Width	167±2mm (6.57 inches)
Height	182±2mm (7.17 inches)
Total Height	182±2mm (7.17 inches)
Terminal	Value
M5	9~10 N*m
M6	11~12 N*m
M8	14~15 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	195.3	148.3	87.6	48.9	29.1	22.6	17.7	15.1	10.1	8.44	4.41
1.65V	184.5	141.8	84.1	47.2	28.2	21.9	17.3	14.7	10.0	8.34	4.34
1.70V	169.9	132.8	80.4	45.7	27.3	21.3	16.8	14.3	9.87	8.21	4.29
1.75V	155.5	123.6	76.8	44.0	26.3	20.6	16.4	14.0	9.74	8.10	4.24
1.80V	140.7	114.1	73.4	42.3	25.4	20.0	15.9	13.6	9.57	8.00	4.20
1.85V	115.0	94.7	63.3	38.0	23.2	18.5	14.8	12.7	8.99	7.53	3.99

Constant Power Discharge Characteristics : W/Cell (25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	331.9	259.3	159.1	91.9	55.2	43.1	34.0	29.1	19.8	16.6	8.69
1.65V	319.7	251.6	154.4	89.2	53.7	41.9	33.2	28.4	19.6	16.4	8.57
1.70V	299.7	239.2	149.0	86.9	52.2	41.0	32.5	27.8	19.4	16.2	8.47
1.75V	279.3	225.8	143.9	84.2	50.6	39.9	31.8	27.2	19.1	16.0	8.38
1.80V	257.2	211.4	138.9	81.4	49.1	38.8	31.0	26.6	18.9	15.8	8.31
1.85V	213.9	177.9	120.8	73.5	45.2	36.1	28.9	24.9	17.7	14.9	7.90

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C_{10} should reach 95% after the first cycle and 100% after the third cycle.

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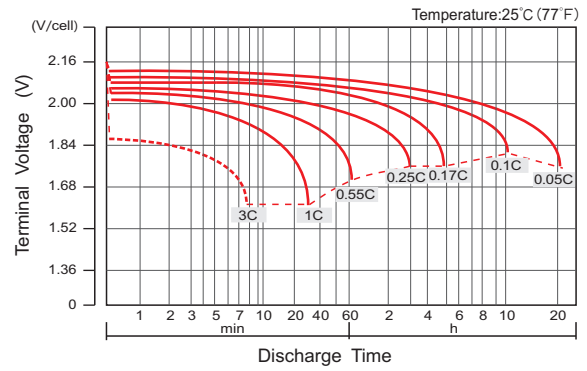
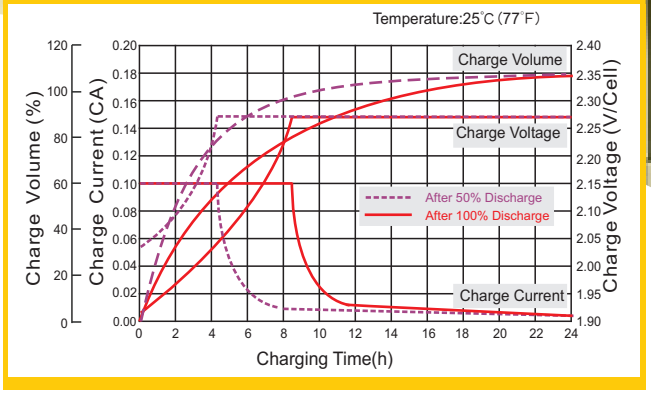
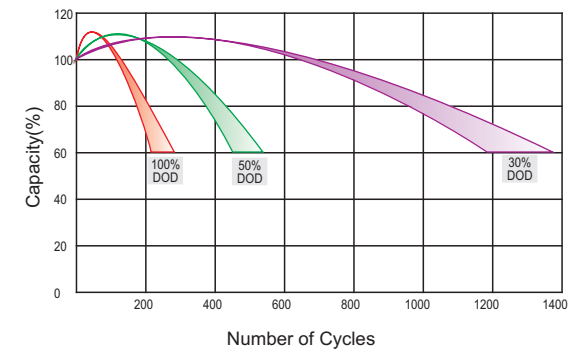
Discharge Characteristics Curve



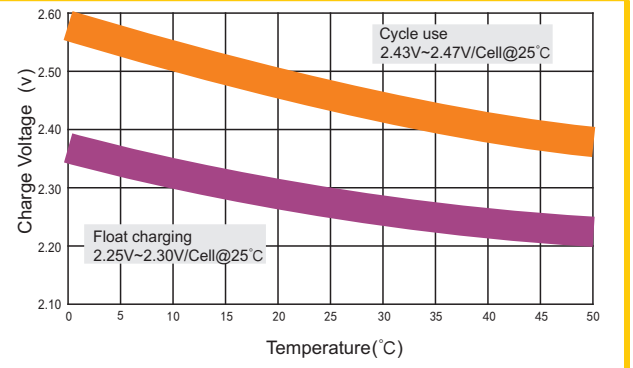
Charge Characteristic Curve For Standby Use(IU)



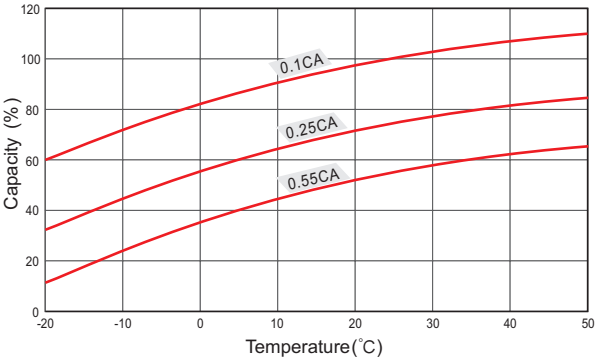
Cycle Life In Relation To Depth Of Discharge



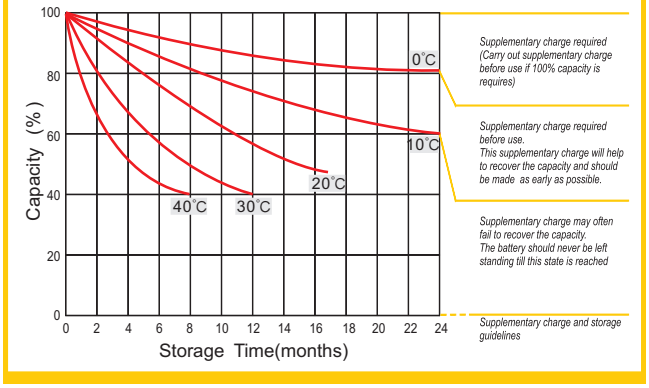
Relationship Between Charging Voltage And Temperature



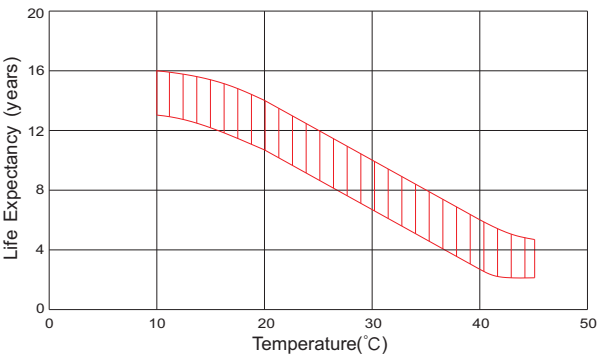
Temperature Effects On Capacity



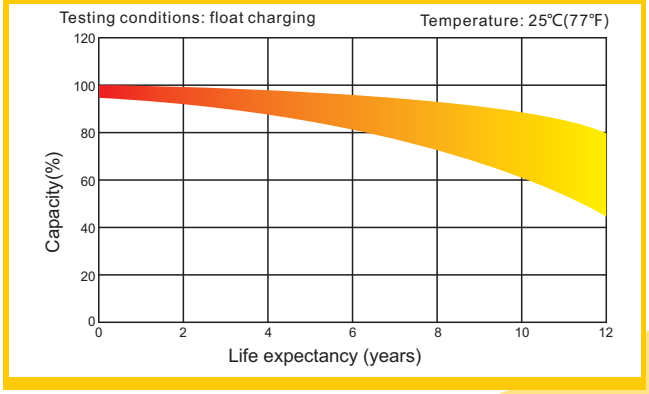
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, reserves the right to explain and update the latest information.

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