

SBDG12-100(12V100Ah)

SKANBATT

Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	100Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 29.0 Kg (Tolerance ±5%)
Internal Resistance	≤8.5 mΩ (Full Charge Condition @25°C)
Terminal	Default F12(M8), F5(M8)&L7 Optional
Max. Discharge Current	1000A (5 sec)
Design Life	15 years
Max. Charging Current	20.0 A
Reference Capacity	C3 66.0Ah C5 75.0Ah C10 88.0Ah C20 100.0Ah
Float Charging Voltage	13.38 V~13.50 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.20 V~14.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: 0°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) GEL batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 2% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



SKANBATT SBDG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented GEL electrolyte, the SBDG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.



ISO 9001



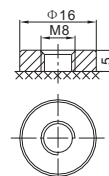
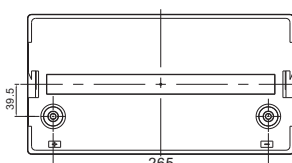
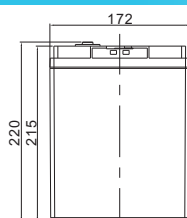
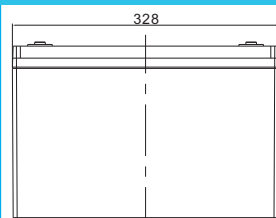
ISO 14001



ISO 45001



Dimensions



F12 Terminal

Length	328±2mm (12.9 inches)
Width	172±2mm (6.77 inches)
Height	215±2mm (8.46 inches)
Total Height	220±2mm (8.66 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°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	163.7	132.8	87.1	54.3	33.2	24.9	19.8	16.7	11.3	9.28	5.20
1.65V	154.7	126.9	83.6	52.4	32.1	24.1	19.3	16.2	11.1	9.17	5.12
1.70V	142.4	118.9	79.9	50.7	31.1	23.5	18.8	15.8	11.0	9.03	5.06
1.75V	130.4	110.6	76.4	48.9	30.0	22.8	18.3	15.4	10.8	8.91	5.00
1.80V	118.0	102.2	73.0	47.0	28.9	22.0	17.8	15.0	10.6	8.80	4.95
1.85V	96.4	84.8	62.9	42.2	26.5	20.4	16.5	14.0	10.0	8.28	4.70

Constant Power Discharge Characteristics : W/Cell (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	278.3	232.1	158.2	102.0	62.9	47.5	38.1	32.1	22.0	18.2	10.2
1.65V	264.8	223.1	153.2	99.3	61.2	46.3	37.2	31.4	21.7	18.0	10.1
1.70V	251.3	214.1	148.2	96.5	59.5	45.2	36.3	30.7	21.5	17.8	10.0
1.75V	234.2	202.1	143.1	93.5	57.7	44.0	35.5	30.0	21.2	17.6	9.88
1.80V	215.7	189.3	138.2	90.5	55.9	42.8	34.6	29.3	20.9	17.4	9.79
1.85V	179.4	159.3	120.2	81.6	51.5	39.8	32.3	27.4	19.7	16.4	9.31

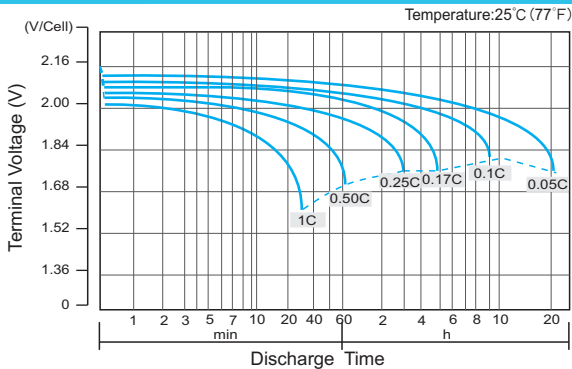
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

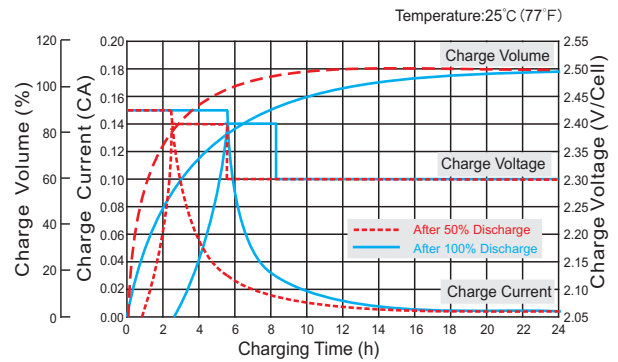
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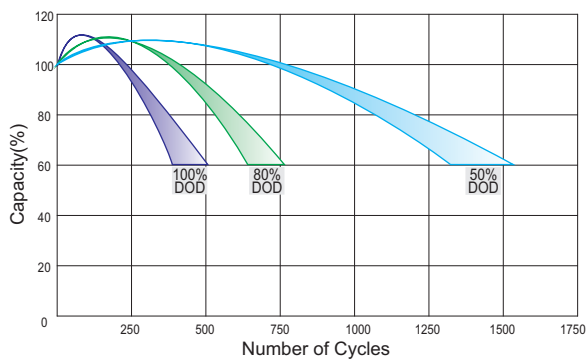
Discharge Characteristics Curve



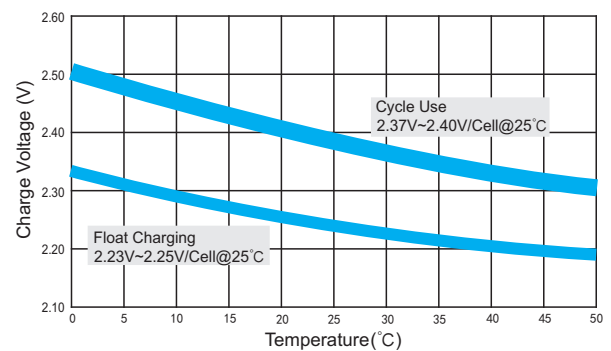
Charge Characteristic Curve for Cycle Use(IUU)



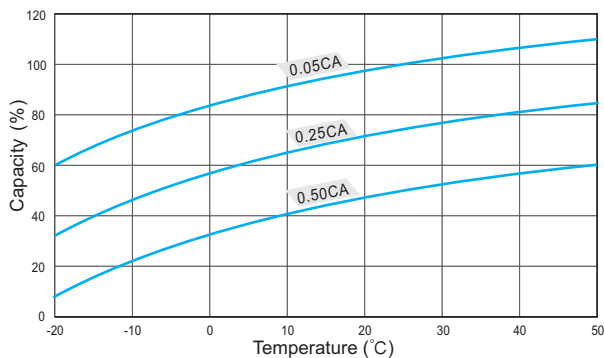
Cycle Life in Relation to Depth of Discharge



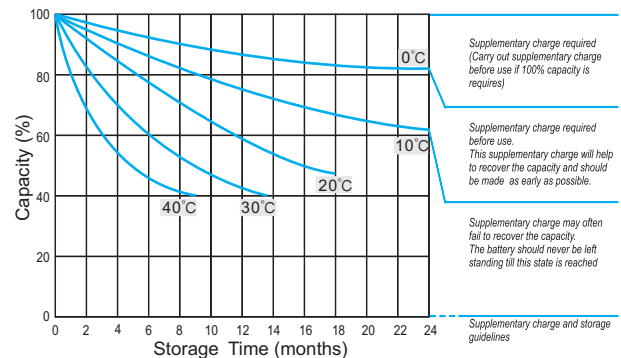
Relationship Between Charging Voltage and Temperature



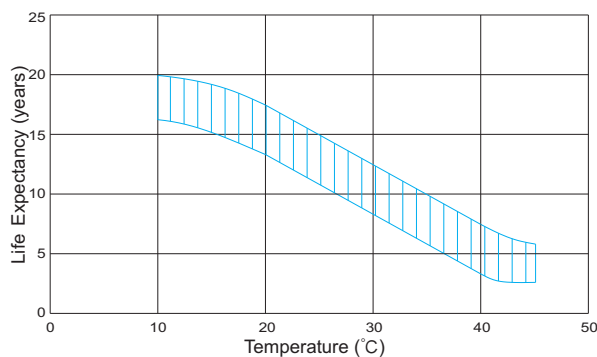
Temperature Effects on Capacity



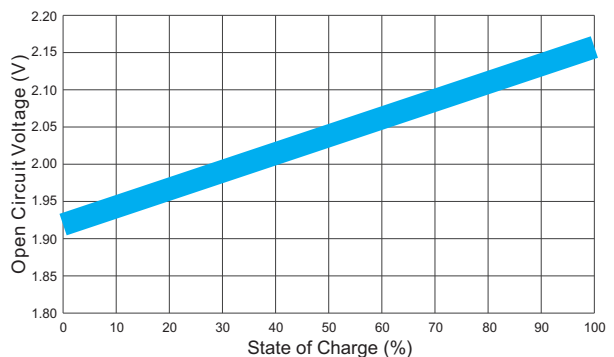
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



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

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