

# SLB65-12 [12V-65Ah]

SLB 12-65 Battery



## Specification

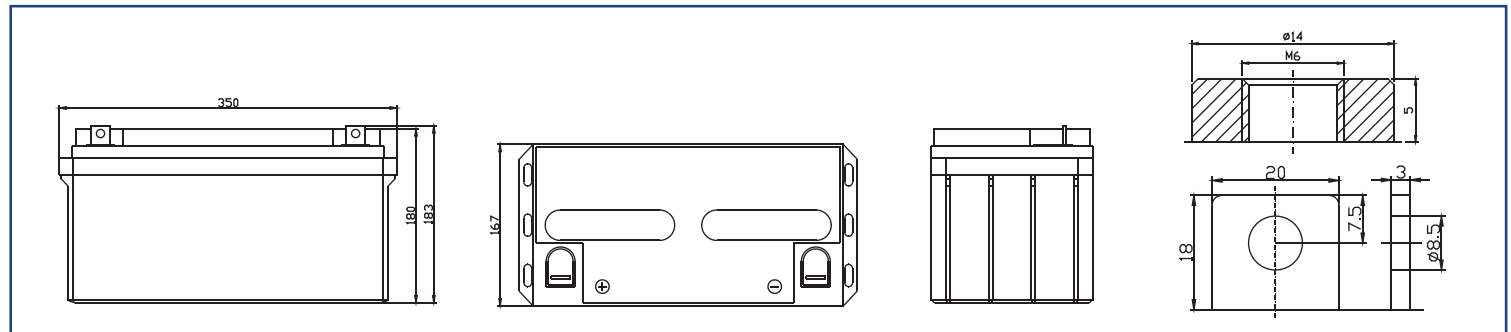
Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah@10hr a1.80V per cell @25 °C
Weight	Approx. 21.0 Kg(Tolerance)±2%
Max. Discharge Current	650 A (5 sec)
Internal Resistance	Approx. 6 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25 C
Recommended Maximum Charging Current	19.5 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25 C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F5/F11
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



SLB65-12 (12V-65Ah) is a general purpose battery with 10 years life in float service or more than 260 cycles at 100% discharge in cycle service. Complies with IEC, JIS and BS standards.

Using the latest technology and the purest raw material, the batteries maintain a high consistency for best performance and reliable service. It is suitable for UPS/EPS, medical equipment, emergency lighting, and security system applications.

## Dimensions 350mm(L) x 167mm(W) x 183mm(H)



### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C < (A) < 1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+14.4-14.7Vx24h, Corriente Max.0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

<b>Bolt</b>	M5	M6	M8
<b>Terminal</b>	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
<b>Torque</b>	6~7N·m	8~10N·m	10~12N·m

### Maintenance & Cautions

#### Float Service:

- \* Every month, recommend inspection every battery voltage.
- \* Every three months, recommend equalization charge for one time.

#### Equalization charge method:

- Discharge: 100% rate capacity discharge.
- Charge: Max. current 0.3CA, constant voltage 14.4-14.7V charge 24h.
- \* Effect of temperature on float charge voltage: -3mV/°C/Cell.
- \* Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



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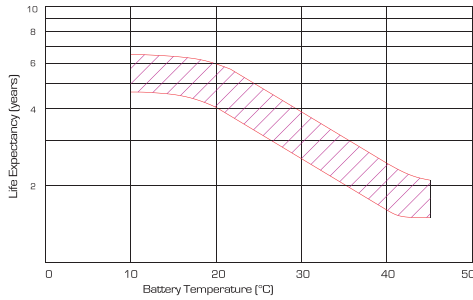
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# SLB65-12 (12V-65Ah)

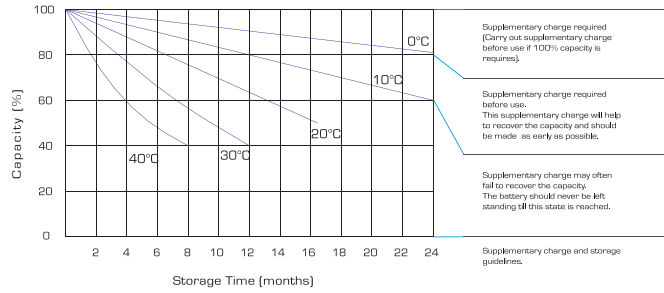
SLB 12-65 Battery



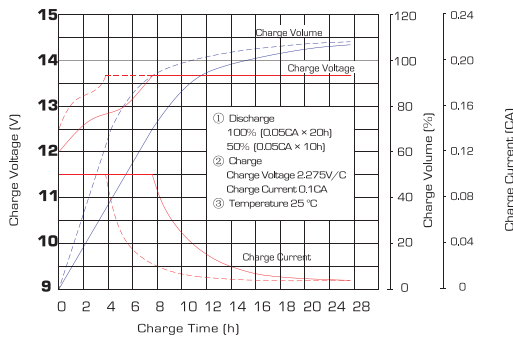
### Effect of temperature on long term float life



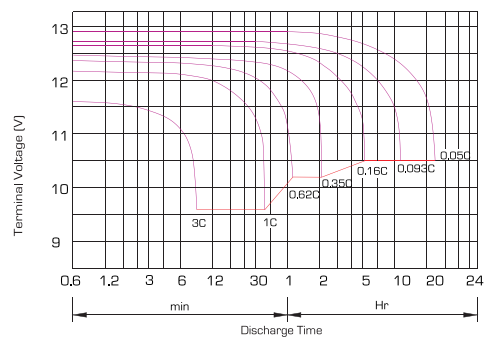
### Storage characteristic



### Charge characteristic Curve for standby use



### Discharge characteristic Curve



### Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

### Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	227.6	167.6	125.0	65.31	40.57	25.05	17.02	13.73	11.39	7.50	6.76	3.58
10.0V	221.0	159.4	122.4	64.47	40.03	24.54	16.71	13.53	11.29	7.48	6.70	3.51
10.2V	214.5	153.8	120.5	63.48	39.65	24.28	16.56	13.40	11.22	7.41	6.63	3.45
10.5V	192.6	141.9	114.7	61.74	39.17	23.97	16.41	13.20	11.13	7.34	6.57	3.38
10.8V	173.8	129.4	105.8	59.70	38.62	23.77	16.22	12.75	11.07	7.31	6.51	3.35
11.1V	148.4	115.7	94.87	57.43	37.70	22.81	15.90	12.56	10.99	7.25	6.43	3.21

### Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	2401	1785	1363	747.6	470.2	293.5	200.4	164.3	136.5	89.87	81.11	43.13
10.0V	2354	1730	1341	739.8	465.9	290.0	197.4	162.0	135.3	89.52	80.47	42.38
10.2V	2327	1684	1326	733.4	463.1	287.9	196.6	160.5	134.5	88.85	79.76	41.60
10.5V	2118	1568	1265	718.4	460.1	284.2	195.0	158.3	133.4	88.10	78.97	40.82
10.8V	1929	1446	1169	701.4	454.2	282.1	192.8	153.0	132.8	87.71	78.19	40.42
11.1V	1695	1307	1052	682.2	447.4	271.6	189.5	150.8	132.3	87.09	77.34	38.98

All mentioned values are average values

(Tolerance ±2%).