

# SS9-12 (12V-9Ah)

SLB 12-9 Battery



## Specification

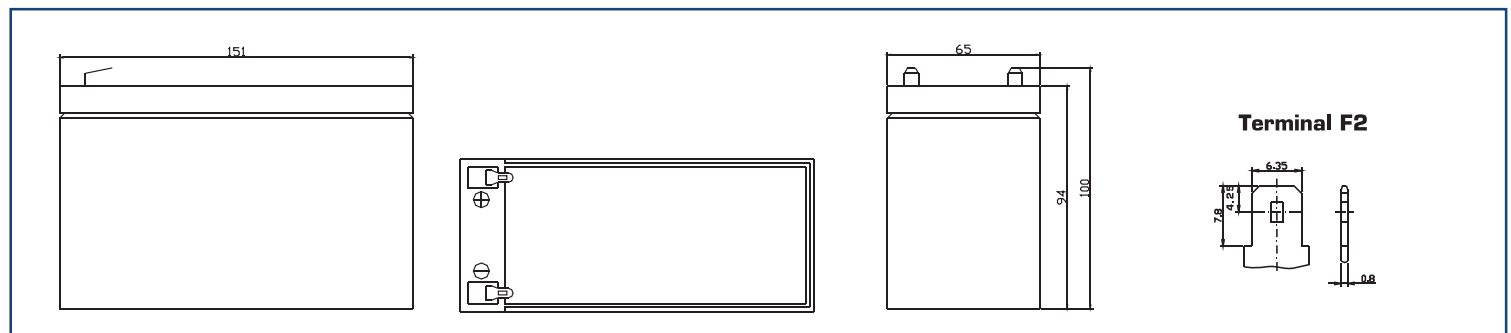
Cells Per Unit	6
Voltage Per Unit	12
Capacity	9Ah@20hr-rate to 1.75V per cell @25 °C
Weight	Approx. 2.55 Kg(Tolerance)±4%
Max. Discharge Current	90 A (5 sec)
Internal Resistance	Approx. 18 mΩ
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25 °C
Recommended Maximum Charging Current	2.7 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	Faston Tab 187(F1)/Faston tab 250(F2)
Container Material	A.B.S. UL94-HB, UL94-VO Optional.



SS9-12 (12V-9Ah) is a general purpose battery with 5 years design life in float service or more than 260 cycles at 100% discharge in cycle service. It meets with IEC, JIS and BS standards. Maintenance-free sealed battery.

With up-dated AGM valve regulated technology and high purity raw materials, the battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.

## Dimensions 151mm(L) x 65mm(W) x 100mm(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, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

### 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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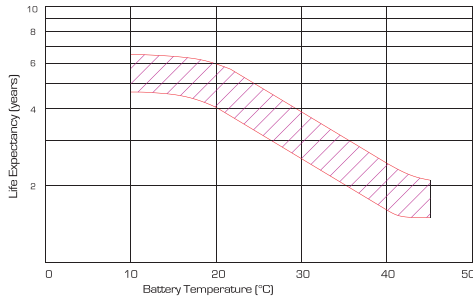
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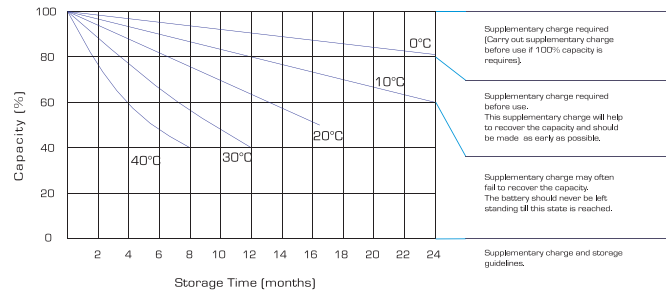
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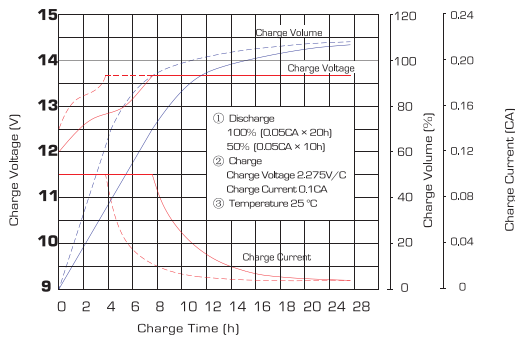
### Effect of temperature on long term float life



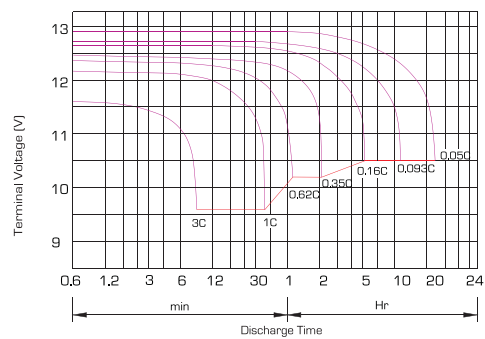
### Storage characteristic



### 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	35.50	23.27	17.33	9.23	5.849	3.362	2.357	1.920	1.578	1.039	0.900	0.482
10.0V	34.22	22.69	16.78	9.11	5.772	3.294	2.313	1.892	1.564	1.035	0.890	0.478
10.2V	32.20	21.57	16.31	8.97	5.717	3.259	2.293	1.874	1.553	1.026	0.877	0.464
10.5V	28.95	20.17	15.39	8.722	5.646	3.217	2.272	1.846	1.540	1.017	0.872	0.454
10.8V	25.94	18.81	14.52	8.434	5.568	3.190	2.246	1.783	1.533	1.012	0.858	0.436
11.1V	22.69	17.24	13.39	8.114	5.436	3.127	2.202	1.757	1.526	1.004	0.845	0.429

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	385.0	255.2	191.3	105.6	69.92	39.62	28.18	22.98	18.90	12.44	10.78	5.779
10.0V	375.0	249.9	188.5	104.5	68.90	39.10	27.72	22.65	18.73	12.40	10.68	5.732
10.2V	356.7	240.0	186.0	103.6	68.39	38.75	27.48	22.44	18.62	12.30	10.54	5.584
10.5V	325.5	230.1	176.3	101.5	67.47	38.34	27.28	22.14	18.47	12.20	10.47	5.490
10.8V	293.7	215.3	166.6	99.1	66.59	38.06	26.96	21.39	18.38	12.14	10.31	5.270
11.1V	259.0	200.4	156.9	96.4	65.13	37.51	26.43	21.09	18.32	12.06	10.15	5.187

All mentioned values are average values

(Tolerance ±2%).