



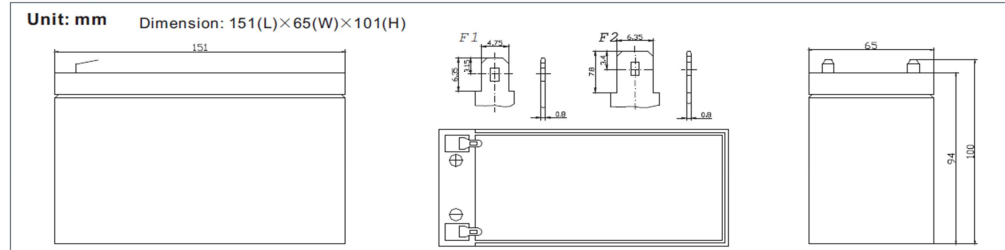
PSB12-9 (12V9.0Ah)

PSB12-9 is a general purpose battery with 5 years design life. It meets with IEC and JIS standards. These batteries are constructed with a heavy grid and thick plates to ensure long and reliable standby service life.

Specifications	
Weight	Approx. 2.55Kg
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
Maximum Charging Current Limit	2.7A
Equalisation 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) , Flammability resistance of UL94-V2 can be available upon request

General Features	
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom form electrolyte for air transport-complies with LATA/ICAO Special provision A67	
- Not restricted for air transport-complies with LATA/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	

Dimensions



Constant Current Discharge Characteristics : A(25°C)

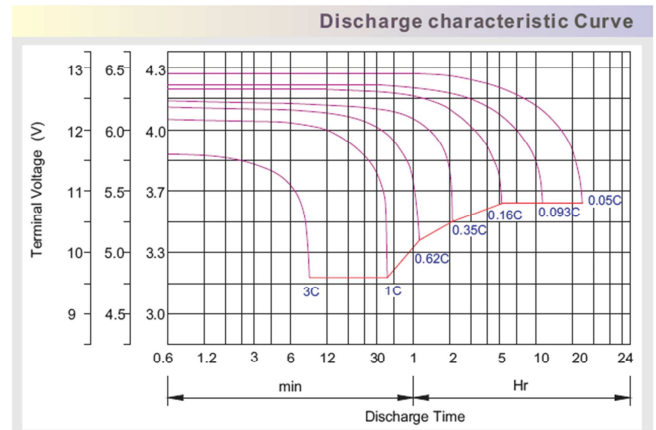
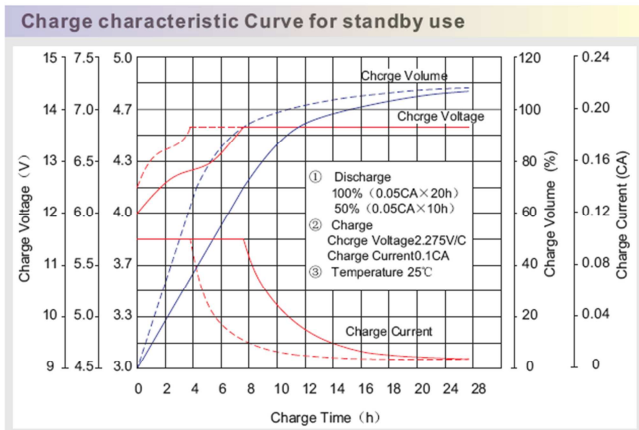
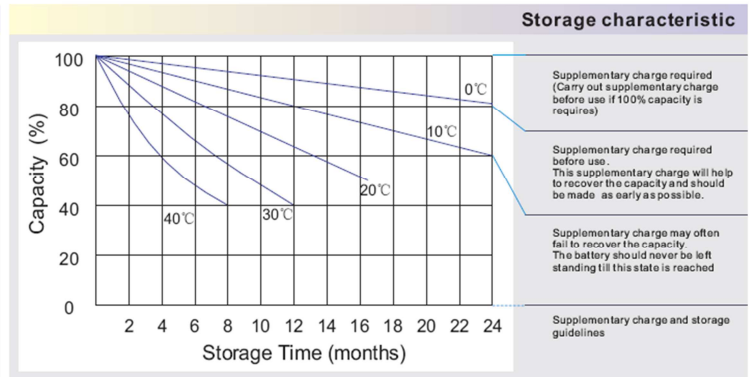
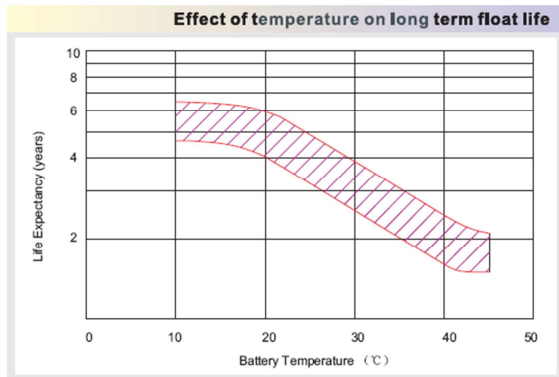
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	35.550	23.760	18.270	10.557	6.2460	3.2557	2.3040	1.8900	1.5666	1.0391	0.8996	0.5049
10.0V	34.266	22.835	17.684	10.395	6.2100	3.2322	2.2950	1.8810	1.5574	1.0350	0.8905	0.4865
10.2V	32.414	22.129	17.278	10.314	6.1650	3.2243	2.2860	1.8720	1.5481	1.0309	0.8813	0.4774
10.5V	29.282	20.709	16.379	10.080	6.0750	3.1852	2.2770	1.8630	1.5388	1.0267	0.8721	0.4590
10.8V	26.151	19.298	15.470	9.8370	5.9850	3.1304	2.2590	1.8540	1.5296	1.0226	0.8537	0.4406
11.1V	23.047	17.878	14.571	9.5940	5.9040	3.0835	2.2410	1.8450	1.5203	1.0184	0.8446	0.4315



Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	388.80	252.72	205.36	126.68	74.898	39.021	27.594	22.572	22.081	12.494	10.635	5.9449
10.0V	378.68	252.45	202.41	124.63	74.682	38.786	27.540	22.518	21.914	12.394	10.526	5.7267
10.2V	371.10	244.88	197.77	123.82	74.520	38.692	27.486	22.518	21.859	12.377	10.417	5.6176
10.5V	335.35	234.78	187.47	120.85	73.278	38.082	27.324	22.356	21.803	12.343	10.308	5.3995
10.8V	299.56	219.63	177.12	117.99	72.036	37.565	27.108	22.194	21.747	12.293	10.144	5.2358
11.1V	263.81	204.48	166.82	115.13	70.794	37.002	26.892	22.032	21.692	12.293	9.9808	5.0722

All mentioned values are average values.



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%

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+2.4-2.45V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

- We recommend inspection of the Battery Voltages every month
- Every 3 months please do an Equilisation Charge
An Equilisation Charge involves:
Discharge: 100% rate capacity discharge
Charge: Max current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24hrs
- 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