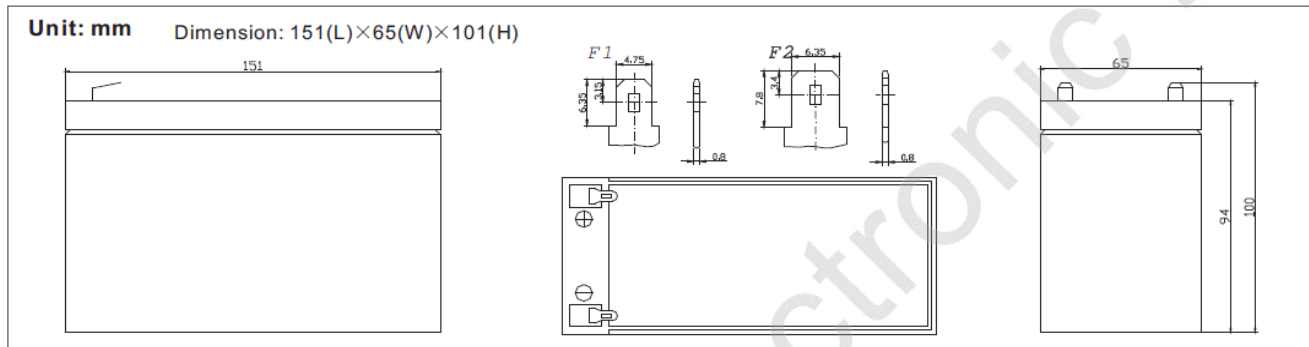


MODEL :PEC 12-9

PE12-9 is a general purpose battery with 5 years floating design life , meet with IEC, JIS standard .With heavy duty grid, thickness plates, special additives, RT series battery have long and reliable standby service life



Dimensions



Specification

Capacity: 9Ah@20hr-rate to 1.75V per cell @25°C

Voltage	12V
Weight	Approx. 2.6 Kg
Max. Discharge Current	90A (5 sec)
Internal Resistance	Approx. 18mΩ
Operating Temperature Range	Operation(maximum) : -20 to 55°C
	Operation(recommended) 20 to 30°C
	Storage : -20 to 40°C
Self Discharge	less than 3%per month@25° C

Maintenance

Float Charging Voltage:13.6 to 13.8 V@25°C

Equalization and Cycle service voltage	14.6 to 14.8 V@25°C
Temp.compensate coefficient:	-3mV/°C/cell
Maximum charge current:	2.7A
Every three months, recommend equalization charge	

Constant Current Discharge Characteristics: A (25°C)

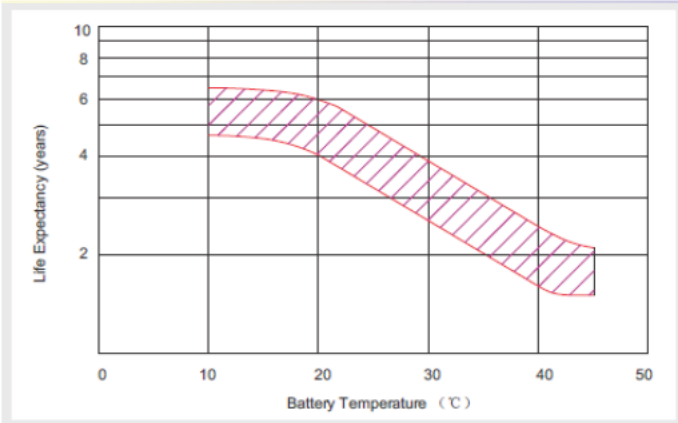
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	35.550	23.760	18.270	10.557	6.2460	3.2557	2.3040	1.8900	1.5666	1.0391	0.8996	0.5049
10.0V	34.266	22.835	17.684	10.395	6.2100	3.2322	2.2950	1.8810	1.5574	1.0350	0.8905	0.4865
10.2V	32.414	22.129	17.278	10.314	6.1650	3.2243	2.2860	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)

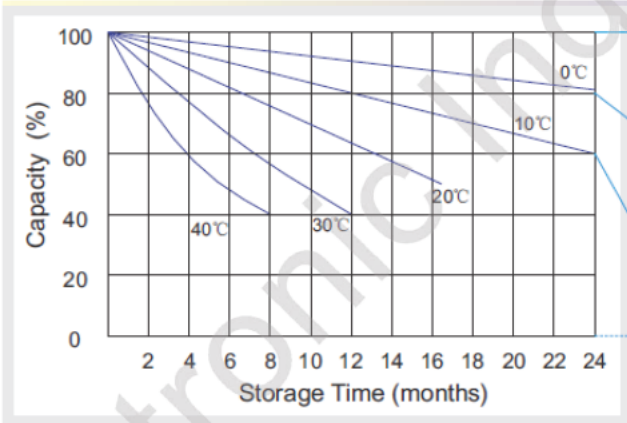
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	388.80	252.72	205.36	126.68	74.898	39.021	27.594	22.572	22.081	12.494	10.635	5.9449
10.0V	378.68	252.45	202.41	124.63	74.682	38.786	27.540	22.518	21.914	12.394	10.526	5.7267
10.2V	371.10	244.88	197.77	123.82	74.520	38.692	27.486	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

MODEL :PEC 12-9

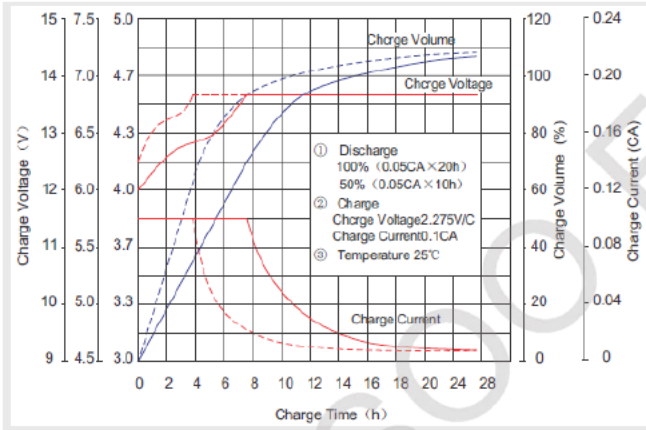
Effect of temperature on float life time



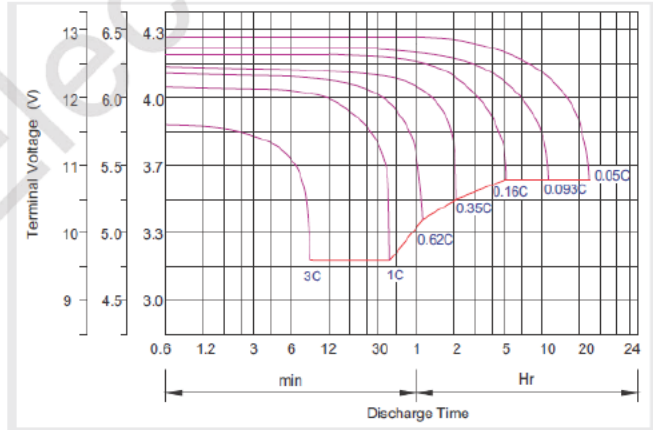
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors at Different Temperature

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

Equalization charge method:

First charge the batteries,

then charge the batteries with constant voltage of 2.45V/cell, the time of equalization charge is 24 hours@25°C

Add : No, 2, Azadegan St., Ghaem-Magham-Farahani Ave., 1586736115, Tehran, IRAN

Tel : +98 21 83836 / Fax : +98 21 88102600 / After Sales Services: +98 21 83837000

WebSite : www.porsoo.ir / Email : info@porsoo.ir