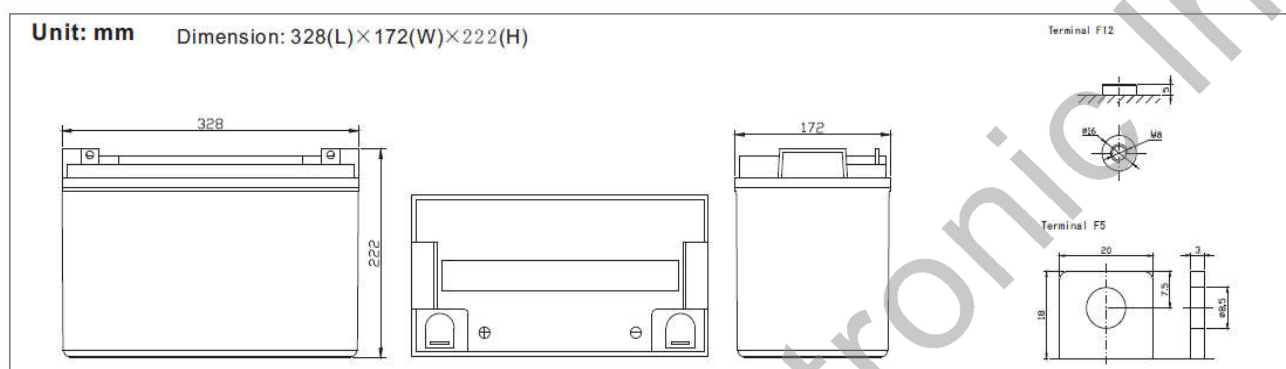


Model: PEC 12-100

PEC12-100 is a general purpose battery with 10 years floating design life meet with IEC, JIS.BS and Euro bat standard. With heavy duty grid, thickness plates, special additives, PEC series battery have long and reliable standby service life. Our PEC Series batteries keep high consistent for better performance in series



Dimensions



Specification

Capacity:	100Ah@10hr-rate to 1.80V per cell @25°C	Float Charging Voltage:	13.6 to 13.8 V@25°C
Voltage	12V	Equalization and Cycle service voltage	14.6 to 14.8 V@25°C
Weight	Approx.30.0 Kg	Temp.compensate coefficient:	-3mV/°C/cell
Max. Discharge Current	1000A (5 sec)	Maximum charge current:	30A
Internal Resistance	Approx. 6.5mΩ	Every three months, recommend equalization	
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		
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request		

Constant Current Discharge Characteristics: A(25°C)

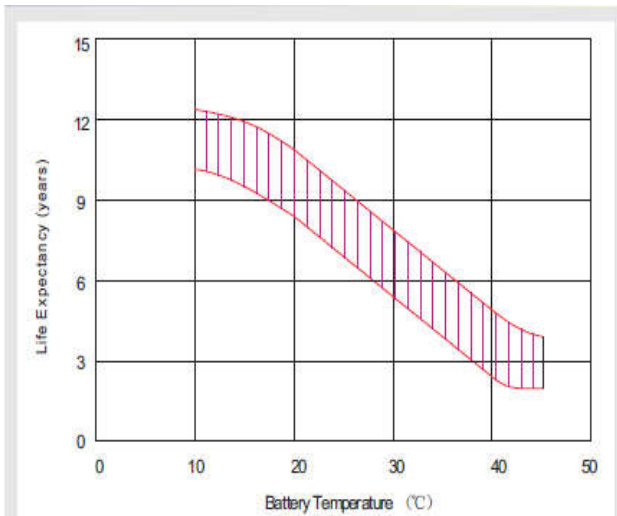
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	320.7	226.9	181.4	112.7	65	38.89	26.88	22.03	18.03	12.42	10.5	5.777
10.0V	311.4	215.8	177.7	110.8	64.7	38.6	26.78	21.93	17.93	12.32	10.4	5.672
10.2V	302.2	208.2	174.9	109.8	64.1	38.31	26.57	21.83	17.82	12.22	10.3	5.567
10.5V	271.3	192.1	166.5	107.1	63.5	38.02	26.47	21.62	17.61	12.12	10.2	5.462
10.8V	244.9	175.2	153.5	102.4	62	37.33	25.75	21.11	17.29	11.92	10.1	5.357
11.1V	209.1	156.6	137.7	95.91	58.9	35.68	24.62	20.09	16.55	11.41	9.796	5.041

Constant Power Discharge Characteristics: W(25°C)

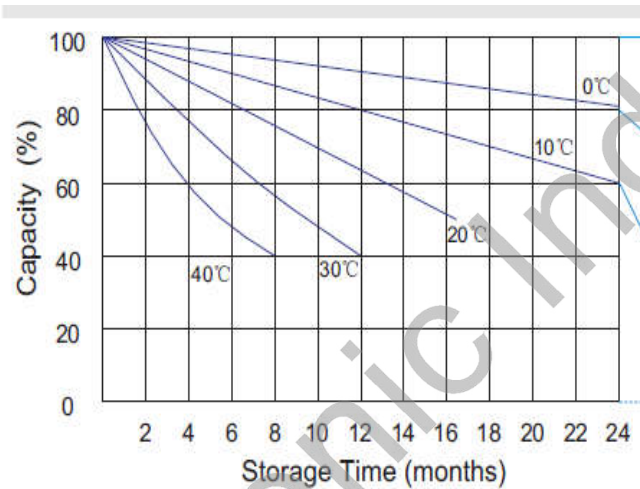
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6 V	3317	2416	1996	1284	751.1	458.4	319.9	262.6	215.1	148.3	125.5	69.26
10.0V	3251	2342	1964	1269	749	456	320	262.3	214.6	147.6	124.7	68.06
10.2V	3214	2280	1941	1260	743.5	453.3	318.6	261.7	213.9	146.6	123.6	66.8
10.5V	2926	2123	1852	1230	736.8	450	317.4	259.3	211.3	145.4	122.4	65.54
10.8V	2665	1957	1712	1179	723.2	444.2	308.7	253.4	207.5	143	121.2	64.28
11.1V	2341	1770	1541	1108	692.3	427.7	295.4	241.1	198.6	136.9	117.6	60.5

Model: PEC 12-100

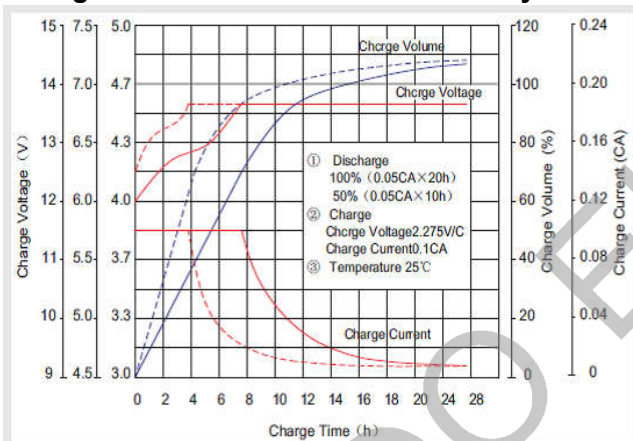
Effect of temperature on float life time



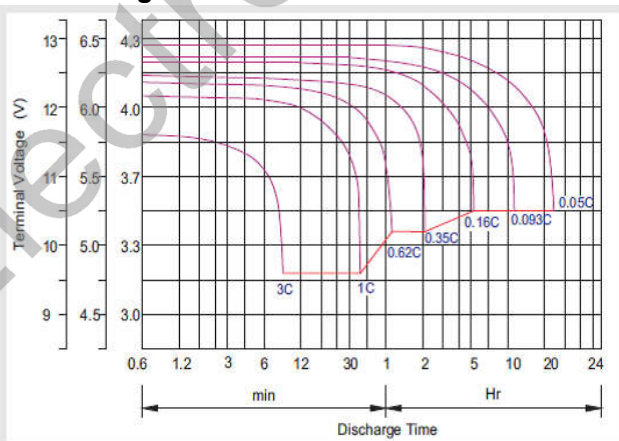
Storage characteristic



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



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