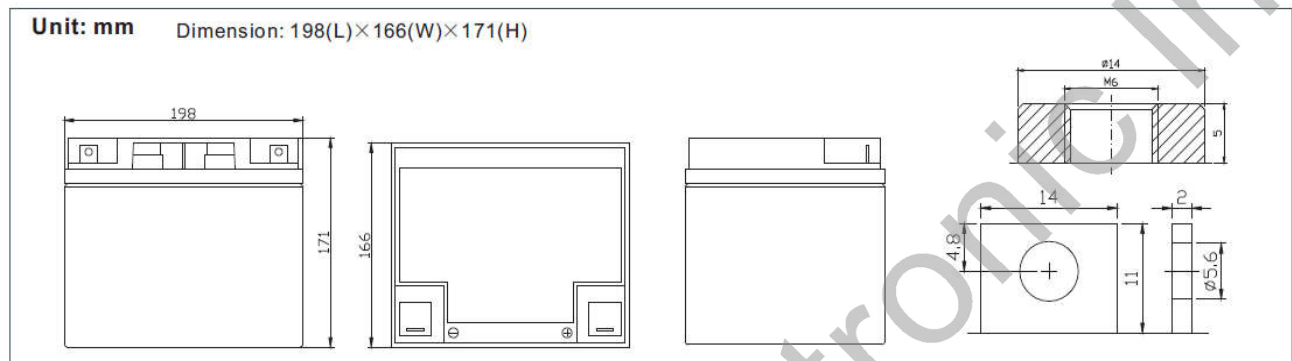


Model: PEC 12-42

PEC12-42 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:	42Ah@10hr-rate to 1.66V 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 13.5 Kg		
Max. Discharge Current	400A (5 sec)		
Internal Resistance	Approx. 8mΩ	Temp. compensate coefficient:	-3mV/°C/cell
Operating Temperature Range	Operation(maximum) : -20 to 55°C	Maximum charge current:	12A
	Operation(recommended) 20 to 30°C		
	Storage : -20 to 40°C	Every three months, recommend equalization	
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		

Maintenance

Constant Current Discharge Characteristics: A(25°C)

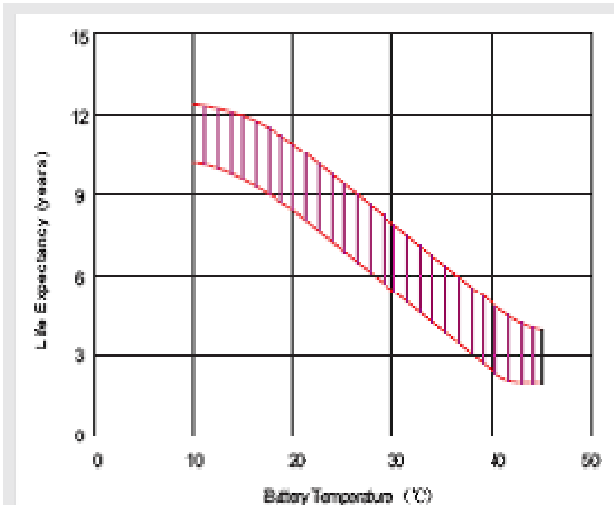
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	139.78	102.91	74.88	46.0	26.0	14.524	10.44	8.64	7.072	4.9687	4.2012	2.2218
10.0V	135.74	97.92	73.344	45.24	25.88	14.414	10.4	8.6	7.0304	4.9283	4.1608	2.1814
10.2V	131.71	94.464	72.192	44.84	25.64	14.305	10.32	8.56	6.9888	4.8879	4.1204	2.141
10.5V	118.27	87.168	68.736	43.72	25.4	14.196	10.28	8.48	6.9056	4.8475	4.08	2.1006
10.8V	106.75	79.488	63.36	41.8	24.8	13.941	10.0	8.28	6.7808	4.7667	4.0396	2.0602
11.1V	92.928	71.04	56.832	39.16	23.56	13.322	9.56	7.88	6.4896	4.5648	3.9184	1.939

Constant Power Discharge Characteristics: W(25°C)

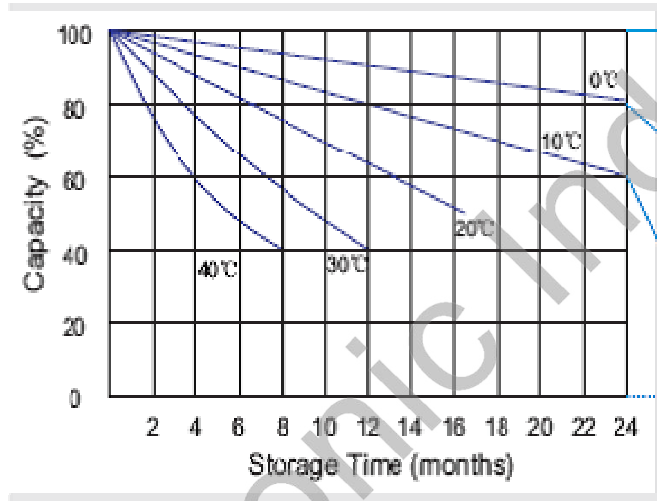
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6 V	1466	1094.3	805.75	493.16	297.36	167.08	120.48	99.84	81.869	57.657	47.24	24.952
10.0V	1426.8	1045.2	789.01	487.01	295.92	166.42	120.24	99.6	81.37	57.415	46.755	24.71
10.2V	1383.8	1010.4	778.3	481.31	293.76	164.89	119.52	99.12	81.12	56.93	46.513	24.468
10.5V	1246.1	933.65	742.14	470.36	290.88	163.36	118.8	98.4	80.371	56.446	46.029	24.226
10.8V	1120.9	847.71	681.88	448.93	283.68	160.96	115.92	95.76	79.123	55.234	45.544	23.983
11.1V	967.57	752.85	608.89	420.66	268.8	153.54	110.16	91.2	75.13	53.296	44.091	23.014

Model: PEC 12-42

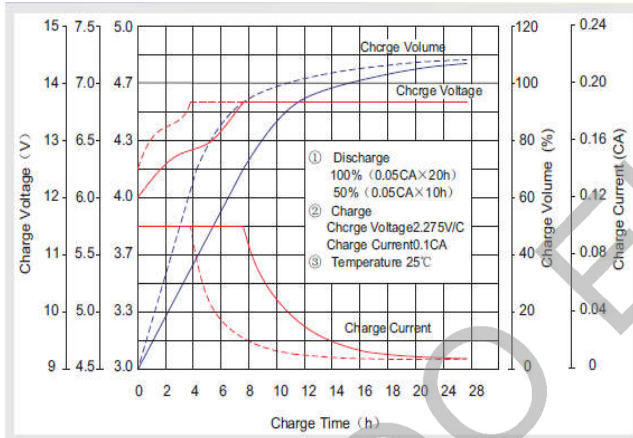
Effect of temperature on float life time



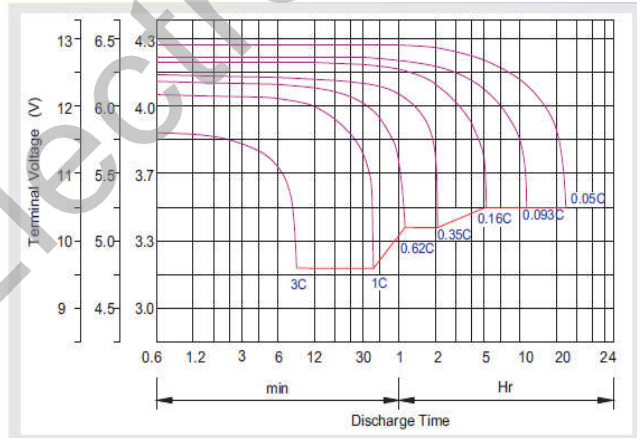
Storage characteristic



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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