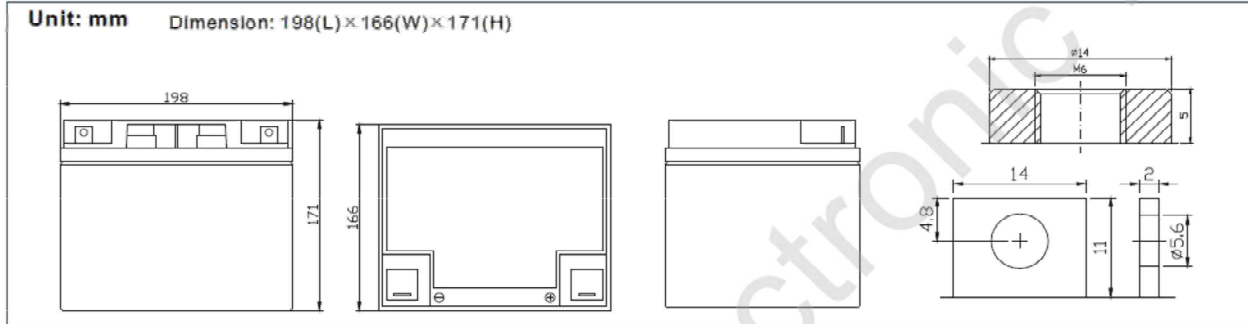


MODEL :PE 12-42

PE12-42 is a general purpose battery with 10 years floating design life, meet with IEC, JIS .BS and Eurobat standard. With heavy duty grid, thickness plates, special additives, PE series battery have long and reliable standby service life. Our PE Series batteries keep high consistent for better performance in series



Specification

Capacity: 42Ah@10hr-rate to 1.66V per cell @25°C

Voltage	12V
Weight	Approx 13.5 Kg
Max. Discharge Current	400A (5 sec)
Internal Resistance	Approx. 8mΩ
Operating Temperature Range	Operation(maximum) : -20 to 55°C
	Operation(recommended) 20 to 30°C
	Storage : -20 to 50°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:	12A
Every three months, recommend equalization charge	

Constant Current Discharge Characteristics: A (25°C)

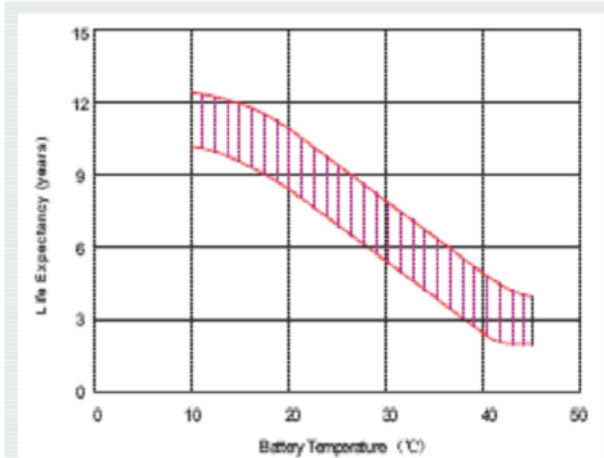
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	139.78	102.91	74.880	46.000	26.000	14.524	10.440	8.6400	7.0720	4.9687	4.2012	2.2218
10.0V	135.74	97.920	73.344	45.240	25.880	14.414	10.400	8.6000	7.0304	4.9283	4.1608	2.1814
10.2V	131.71	94.464	72.192	44.840	25.640	14.305	10.320	8.5600	6.9888	4.8879	4.1204	2.1410
10.5V	118.27	87.168	68.736	43.720	25.400	14.196	10.280	8.4800	6.9056	4.8475	4.0800	2.1006
10.8V	106.75	79.488	63.360	41.800	24.800	13.941	10.000	8.2800	6.7808	4.7667	4.0396	2.0602
11.1V	92.928	71.040	56.832	39.160	23.560	13.322	9.5600	7.8800	6.4896	4.5648	3.9184	1.9390

Constant Power Discharge Characteristics: W (25°C)

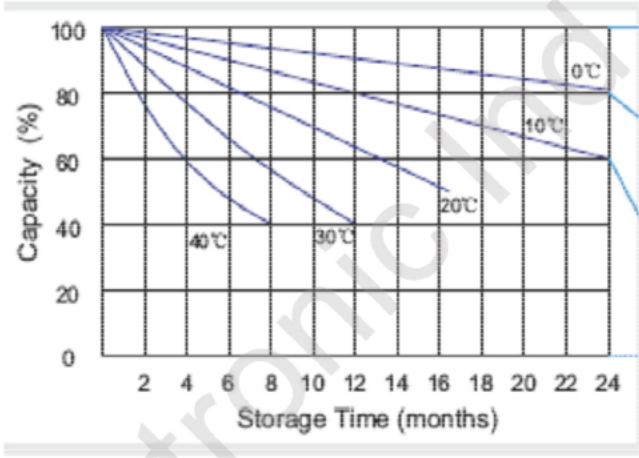
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	146.60	109.43	80.575	49.316	297.36	167.08	120.48	99.840	81.869	57.657	47.240	24.952
10.0V	142.68	104.52	78.901	48.701	295.92	166.42	120.24	99.600	81.370	57.415	46.755	24.710
10.2V	138.38	101.04	77.830	48.131	293.76	164.89	119.52	99.120	81.120	56.930	46.513	24.468
10.5V	124.61	93.365	74.214	47.036	290.88	163.36	118.80	98.400	80.371	56.446	46.029	24.226
10.8V	112.09	84.771	68.188	44.893	283.68	160.96	115.92	95.760	79.123	55.234	45.544	23.983
11.1V	96.757	75.285	60.889	42.066	268.80	153.54	110.16	91.200	75.130	53.296	44.091	23.014

MODEL :PE 12-42

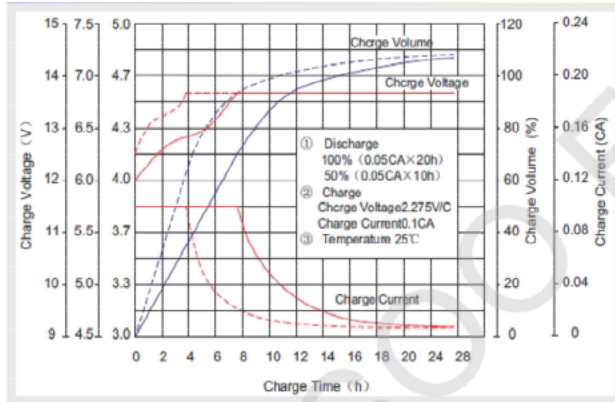
Effect of temperature on float life time



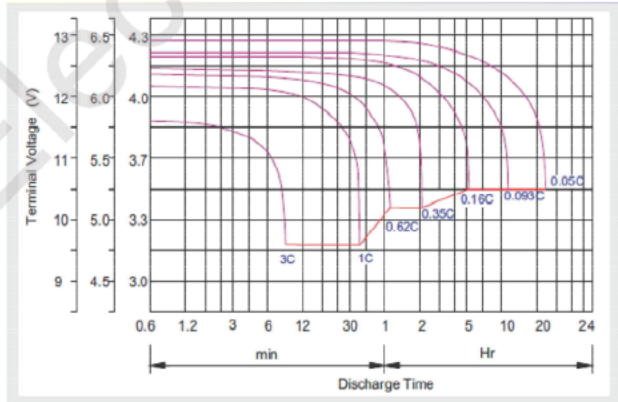
Storage characteristic



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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