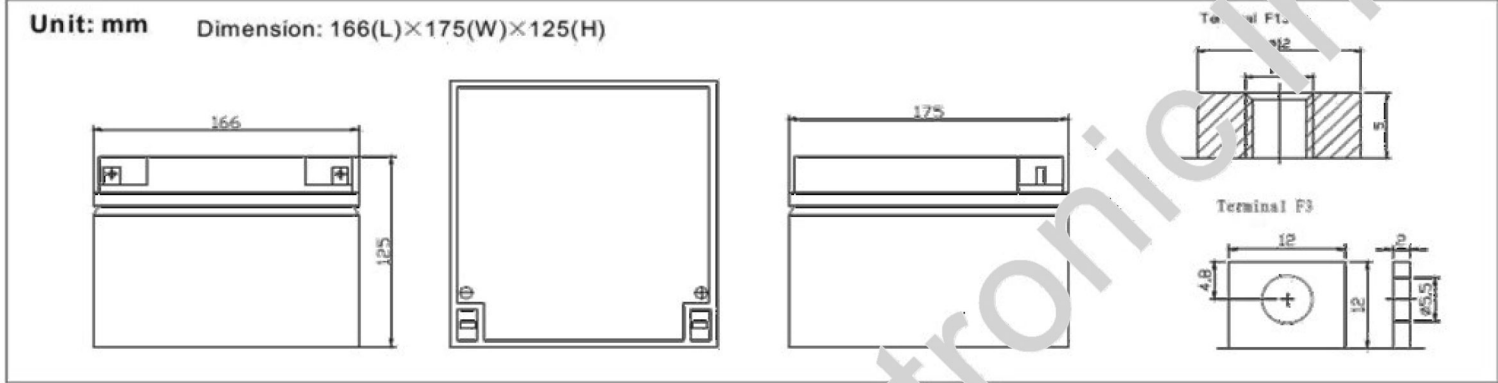


# MODEL :PEC 12-28

PEC 12-28 is a general purpose battery with 5 years floating design life , meet with IEC, JIS standard .With heavy duty grid, thickness plates, special additives, PEC series battery have long and reliable standby service life



## Dimensions



## Specification

Capacity:	28Ah@20hr-rate to 1.75V per cell @25°C	Float Charging Voltage:	13.6 to 13.8 V@25°C
Voltage	12V	Equalization and Cycle sevice voltage	14.6 to 14.8 V@25°C
Weight	Approx. 9 Kg	Temp.compensate coefficient:	-3mV/°C/cell
Max. Discharge Current	280A (5 sec)	Maximum charge current:	8.4A
Internal Resistance	Approx. 9mΩ	Every three months, recommend equalization charge	
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

A.B.S (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.

## Constant Current Discharge Characteristics: A (25°C)

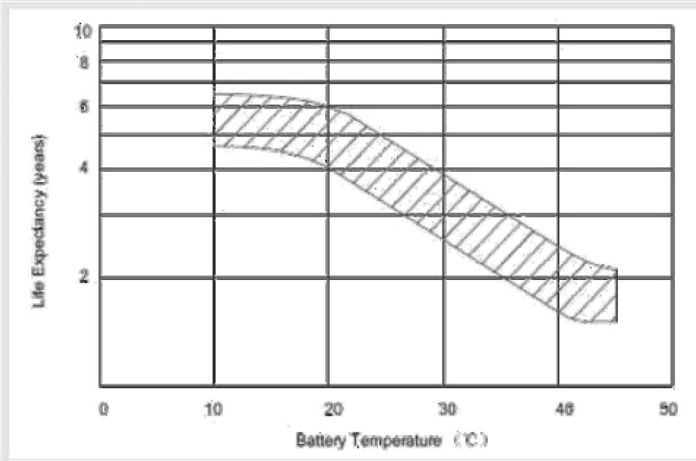
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	100.0	72.0	52.4	32.20	18.20	11.17	7.308	6.048	4.760	3.478	2.941	1.555
1 0.0V	97.84	67.54	51.34	31.67	18.12	11.09	7.280	6.020	4.732	3.450	2.913	1.527
1 0.2V	92.20	66.12	50.53	31.39	17.95	11.00	7.224	5.992	4.704	3.422	2.884	1.499
1 0.5V	82.79	61.02	48.12	30.60	17.78	10.92	7.196	5.936	4.648	3.393	2.856	1.470
1 0.8V	74.73	55.64	44.35	29.26	17.36	10.72	7.000	5.796	4.564	3.337	2.828	1.442
1 1.1V	65.05	49.73	39.78	27.41	16.49	10.25	6.692	5.516	4.368	3.195	2.743	1.357

## Constant Power Discharge Characteristics: W(25°C)

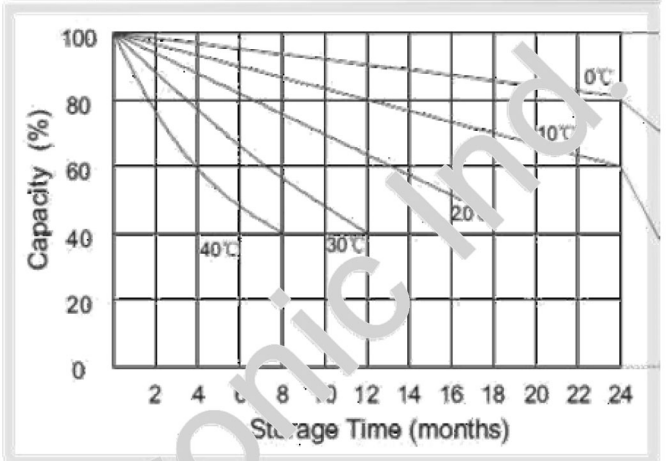
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	1048	766.0	564.0	363.4	208.2	128.5	84.34	69.89	55.10	40.36	33.07	17.47
1 0.0V	1026	731.7	552.3	358.8	207.1	128.0	84.17	69.72	54.77	40.19	32.73	17.30
1 0.2V	968.7	707.3	544.8	354.6	205.6	126.8	83.66	69.38	54.60	39.85	32.56	17.13
1 0.5V	872.3	653.6	519.5	346.6	203.6	125.7	83.16	68.88	54.10	39.51	32.22	16.96
1 0.8V	784.6	593.4	477.3	330.8	198.6	123.8	81.14	67.03	53.26	38.66	31.88	16.79
1 1.1V	677.3	527.0	426.2	310.0	188.2	118.1	77.11	63.84	50.57	37.31	30.86	16.11

# MODEL :PEC 12-28

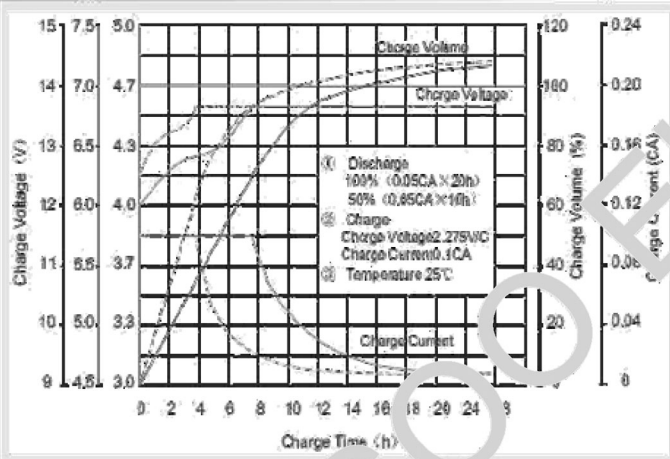
## Effect of temperature on float life time



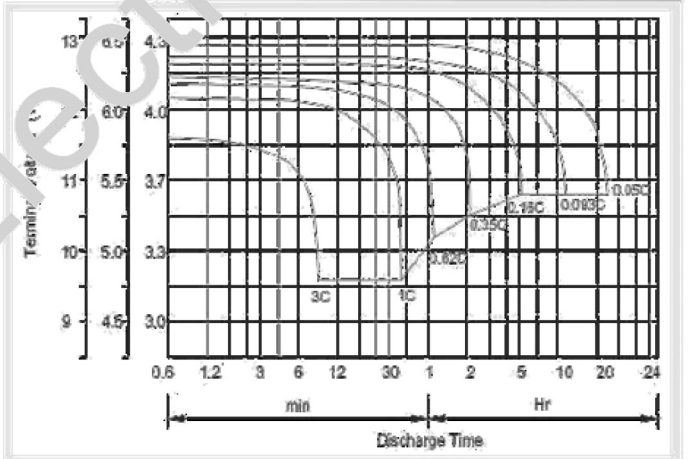
## Storage characteristic



## 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%	86%	93%	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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