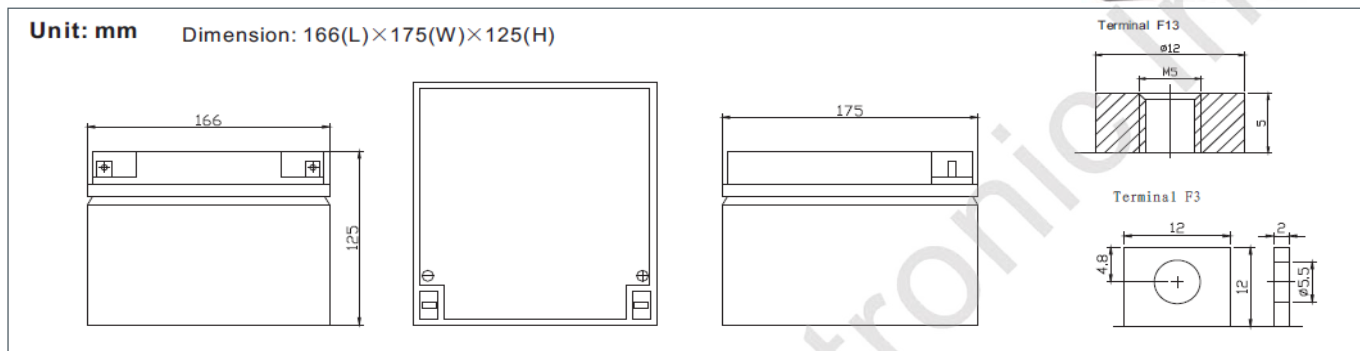


# MODEL :PEC 12-28

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

Voltage	12V
Weight	Approx. 9 Kg
Max. Discharge Current	280A (5 sec)
Internal Resistance	Approx. 9mΩ
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 sevice voltage	14.6 to 14.8 V@25°C
Temp.compensate coefficient:	-3mV/°C/cell
Maximum charge current:	8.4A
Every three months, recommend equalization charge	

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

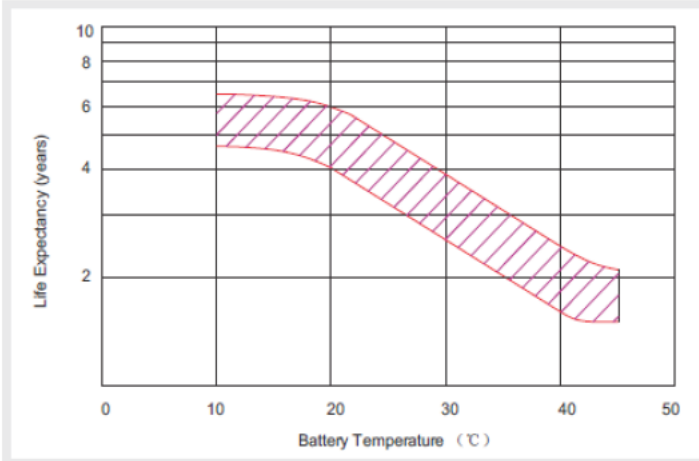
F.V/Time€	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	100.5	72.04	52.4 2	32.20	18.20	11.17	7.308	6.048	4.760	3.478	2.941	1.55 5
1 0.0V	97.84	68.54	51.3 4	31.67	18.12	11.09	7.280	6.020	4.732	3.450	2.913	1.52 7
1 0.2V	92.20	66.12	50.5 3	31.39	17.95	11.00	7.224	5.992	4.704	3.422	2.884	1.49 9
1 0.5V	82.79	61.02	48.1 2	30.60	17.78	10.92	7.196	5.936	4.648	3.393	2.856	1.47 0
1 0.8V	74.73	55.64	44.3 5	29.26	17.36	10.72	7.000	5.796	4.564	3.337	2.828	1.44 2
1 1.1V	65.05	49.73	39.7 8	27.41	16.49	10.25	6.692	5.516	4.368	3.195	2.743	1.35 7

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

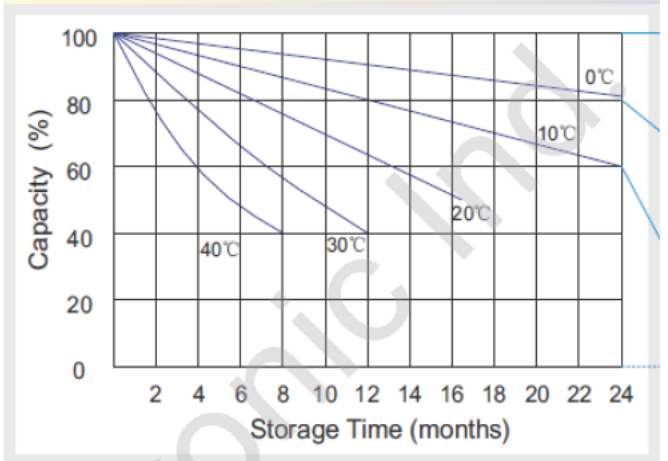
F.V/Time€	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	1048	766 .0	564.0	363 .4	208.2	128.5	84.34	69.89	55 .10	40.36	33.07	17.4 7
1 0.0V	1026	731 .7	552.3	358 .8	207.1	128.0	84.17	69.72	54 .77	40.19	32.73	17.3 0
1 0.2V	968.7	707 .3	544.8	354 .6	205.6	126.8	83.66	69.38	54 .60	39.85	32.56	17.1 3
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	16.9 6
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	16.7 9
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	16.1 1

# MODEL :PEC 12-28

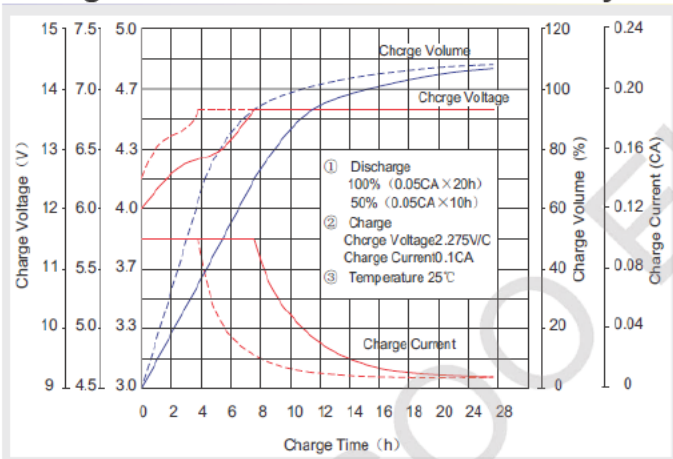
## Effect of temperature on float life time



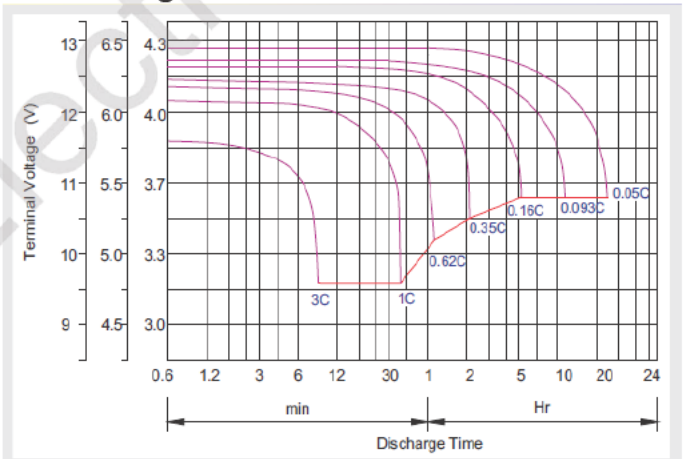
## Storage characteristic



## 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%	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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