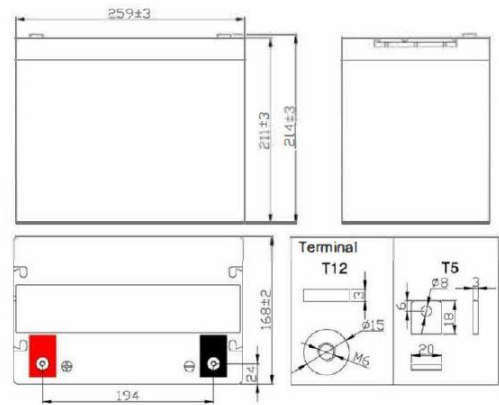


PQ1270T5/T12 (12V 70Ah)

Specifications		
Nominal Voltage	12V (6 Cells in series)	
Rated Capacity 77°F(25°C)	70.0Ah (C10, 1.80V/cell)	
Dimensions (mm)	Length	259 ± 3 mm
	Width	168 ± 2 mm
	Height	211 ± 3 mm
	Total height (T12)	214 ± 3 mm
	Total Height (T5)	229 ± 3 mm
Nominal Capacity @25 °C	20 Hour Rate (3.752A to 10.8 volts)	75.0Ah
	10 Hour rate (7.070A to 10.8 volts)	70.7Ah
	5 Hour rate (12.10A to 10.8 volts)	60.5Ah
	1 Hour rate (44.31A to 10.5 volts)	44.3Ah
Approx. Weight	20.5 kg	
Terminal	T12/T5	
Max. Discharge Current	560A @25°C (5s)	
Internal Resistance	7.5mΩ @25°C (Full Charged Battery)	
Floating Design Life	10 years @25°C	
Ambient Temperature	Charge:	-15°C~50°C
	Discharge:	-20°C~60°C
	Storage:	-20°C~50°C
Container Material	A.B.S, UL94-HB, UL94-V0, Optional	
Self Discharge	VRLA batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.	



Certification

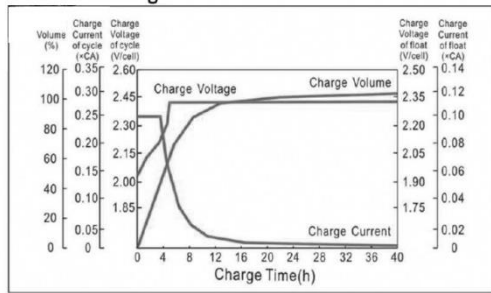


Constant Current Discharge Characteristics (A), (25°C)											
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	234.5	150.5	122.5	78.75	45.50	27.20	18.82	12.62	8.694	7.350	4.032
1.70V/cell	206.5	136.5	117.3	76.65	44.87	26.85	18.59	12.47	8.554	7.210	3.892
1.75V/cell	185.5	126.0	111.0	74.55	44.31	26.50	18.38	12.29	8.470	7.140	3.822
1.80V/cell	161.0	114.1	104.0	71.68	43.40	26.13	18.03	12.10	8.344	7.070	3.752

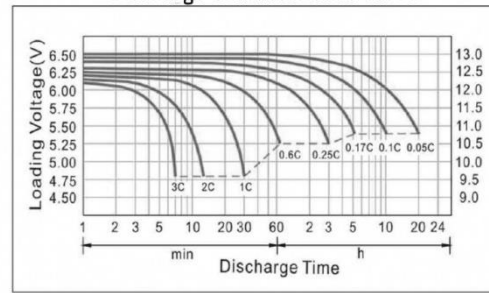
Constant Wattage Discharge Characteristics (Watt), (25°C)											
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	404.5	268.4	222.5	147.0	87.21	53.03	37.32	25.09	17.30	14.64	8.057
1.70V/cell	364.8	248.0	215.9	144.4	86.37	52.57	36.95	24.86	17.07	14.40	7.784
1.75V/cell	332.4	232.1	206.2	141.6	85.67	52.11	36.63	24.55	16.94	14.28	7.644
1.80V/cell	292.5	213.0	194.9	137.4	84.27	51.83	36.02	24.21	16.69	14.14	7.504

PQ1270T5/T12 (12V 70Ah)

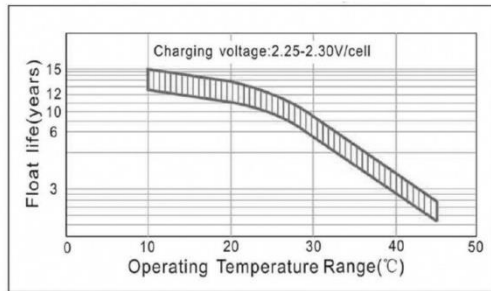
Charge Characteristics Curve



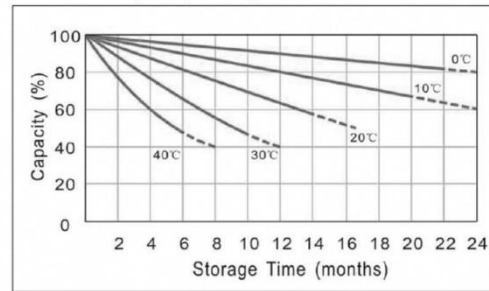
Discharge Characteristics Curve



Float Service Life VS Temperature



Capacity Storage Characteristics



Capacity Factors with Different Temperature

Battery type		-20 C	-10 C	0 C	5 C	10 C	20 C	25 C	30 C	40 C	45 C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Charging Procedure:

Application	Charging method	Charge voltage at 25 C	Temperature compensation coefficient of charging voltage	Max. charging current	Temperature
For standby power source	Constant voltage charging (with current restriction)	2.25~2.3 V/cell	-3mV/C/cell	0.2CA	-15~50 C
For cycle service		2.4~2.45 V/cell	-4mV/C/cell	0.3CA	

- Every Month, recommend inspection every battery voltage.
- Every three months, recommend equalization charge for one time.

Step 1: Discharge: 100% rate capacity discharge.

Step 2: Charge: Max. Current 0.3CA, constant voltage 2.40-2.45V/cell charge 24h.

- Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage. Charge the batteries at least once every six months, if they are stored at 25 C.

Constant voltage: -0,2C x 2h+2,4~2,45V/cell x 24h, Max. Current 0.25CA.

Constant current: -0,2C x 2h+0,1C x 12h

Fast: -0,2C x 2h+0,3C x 4h.