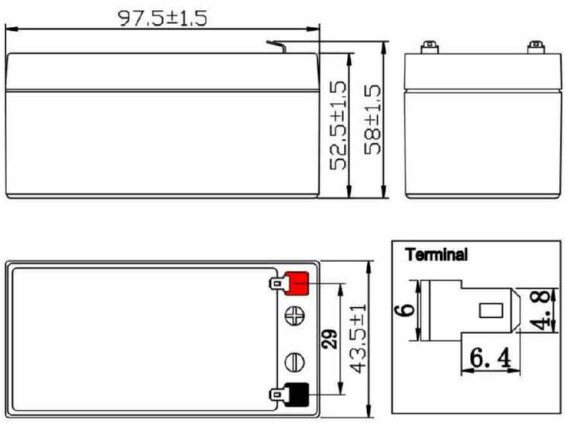
PS1.2-12 (12V1.2Ah)

Specification

Nominal Voltage (V)	12V (6 cells in series)	
Rated Capacity	1.2Ah	(C_{20},1.75V/cell)
Dimensions(mm)	Length	97.5 ± 1.5 mm
	Width	43.5 ± 1 mm
	Height	52.5 ± 1.5 mm
	Total Height	58 ± 1.5 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (0.061A to 10.5 volts)	1.22Ah
	10 Hour rate (0.116A to 10.5 volts)	1.16Ah
	5 Hour rate (0.207A to 10.5 volts)	1.03Ah
	1 Hour rate (0.780A to 9.6 volts)	0.78Ah
	15 min rate (2.310A to 9.6 volts)	0.57Ah
Approx. Weight	0.52 kg	
Terminal	T1-A	
Max.Discharge Current	18A @25℃ (5s)	
Internal Resistance	60mΩ @25℃ (Full Charged Battery)	
Floating Design Life	5 years @25℃	
Ambient Temperature	Charge：-15℃~50℃ Discharge：-20℃~60℃ Storage：-20℃~50℃	
Container Material	A.B.S , UL94-HB , UL94-V0 , Optional	
Self Discharge	VRLA batteries can be stored for more than 6 months at 25℃. Self-Discharge ratio less than 3% per month at 25℃. Please charge batteries before using.	





Certification

MH28792

Constant Current Discharge Characteristics (A), (25°C)

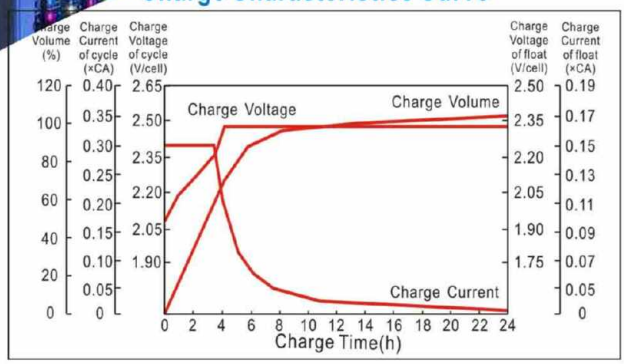
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	4.734	3.102	2.310	1.230	0.780	0.439	0.314	0.212	0.140	0.120	0.064
1.70V/cell	4.296	2.874	2.178	1.194	0.763	0.433	0.306	0.209	0.138	0.117	0.062
1.75V/cell	3.858	2.694	2.058	1.158	0.753	0.429	0.303	0.207	0.137	0.116	0.061
1.80V/cell	3.462	2.520	1.938	1.122	0.742	0.425	0.299	0.205	0.135	0.114	0.058

Constant Wattage Discharge Characteristics (Watt), (25°C)

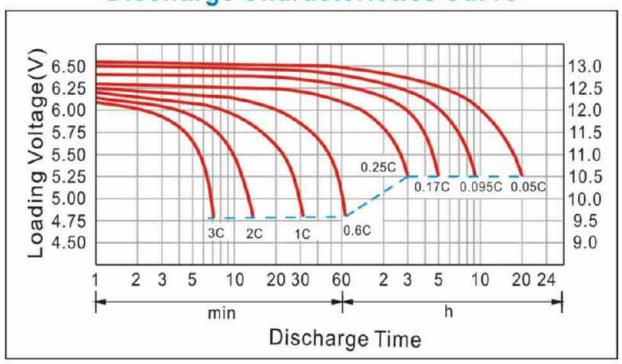
F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	8.561	5.661	4.254	2.347	1.547	0.872	0.626	0.422	0.280	0.240	0.128
1.70V/cell	7.912	5.341	4.084	2.298	1.519	0.862	0.611	0.416	0.276	0.234	0.124
1.75V/cell	7.202	5.096	3.893	2.248	1.501	0.855	0.605	0.414	0.273	0.232	0.122
1.80V/cell	6.520	4.809	3.698	2.197	1.481	0.849	0.599	0.409	0.270	0.228	0.117

PS1.2-12 (12V1.2Ah)

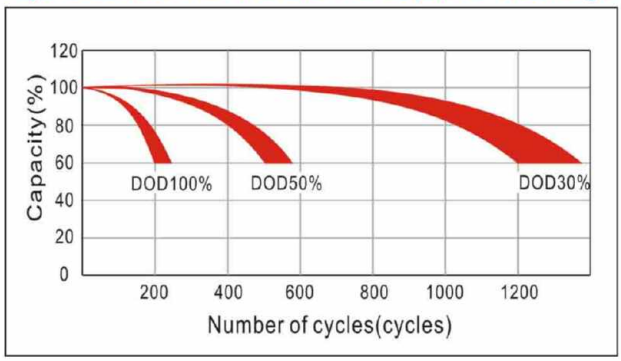
Charge Characteristics Curve



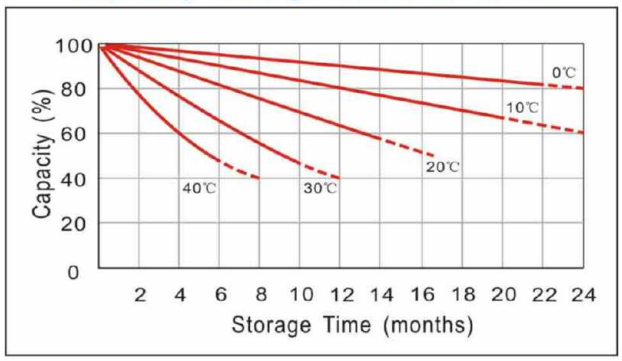
Discharge Characteristics Curve



Cycle service life in relation to depth of discharge



Capacity Storage Characteristics



Capacity Factors with Different Temperature

Battery type		–20℃	–10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
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%

Maintenance & Cautions

☑ Charging Procedure:

Application	Charging method	Charge voltage at 25℃	Temperature compensation coefficient of charging voltage	Max.charging current	Temperature
For standby power source	Constant voltage charging (With current restriction)	2.25~2.30 V/cell	–3mV/℃/cell	0.2CA	–15~50℃
For cycle service		2.45~2.50 V/cell	–4mV/℃/cell	0.3CA	

☑ Every month, recommend inspection every battery voltage.

☑ Every three months, recommend equalization charge for one time.Equalization charge method:

Step 1:Discharge: 100% rate capacity discharge.

Step 2:Charge: Max. Current 0.3CA, constant voltage 2.45–2.50V/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℃.Charging Method:

Constant Voltage : –0.2C × 2h+2.4~2.45V/cell × 24h , Max. Current 0.25CA

Constant Current : –0.2C × 2h+0.1C × 12h

Fast : –0.2C × 2h+0.3C × 4h

☑ Terminal of torque:

Bolt	M5	M6	M8
Terminal	T3、T10	T4、T7、T11、T12、T13	T5、T6、T8、T9、T14
Torque	6~7N.m	8~10N.m	10~12N.m

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