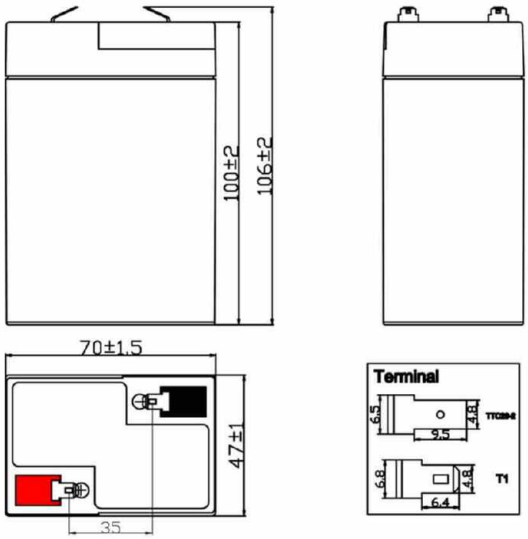
PS4-6 (6V4Ah)

Specification

Nominal Voltage (V)	6V (3 cells in series)	
Rated Capacity	4Ah	(C_{20},1.75V/cell)
Dimensions(mm)	Length	70 ± 1.5 mm
	Width	47 ± 1 mm
	Height	100 ± 2 mm
	Total Height	106 ± 2 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (0.202A to 5.25 volts)	4.04Ah
	10 Hour rate (0.386A to 5.25 volts)	3.86Ah
	5 Hour rate (0.690A to 5.25 volts)	3.45Ah
	1 Hour rate (2.600A to 4.80 volts)	2.60Ah
	15 min rate (7.700A to 4.80 volts)	1.92Ah
Approx. Weight	0.63 kg	
Terminal	T1/T2	
Max.Discharge Current	60A @25℃ (5s)	
Internal Resistance	22mΩ @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	15.78	10.34	7.700	4.100	2.600	1.465	1.046	0.706	0.467	0.400	0.214
1.70V/cell	14.32	9.580	7.260	3.980	2.542	1.442	1.020	0.695	0.460	0.390	0.206
1.75V/cell	12.86	8.980	6.860	3.860	2.510	1.430	1.010	0.690	0.456	0.386	0.202
1.80V/cell	11.54	8.400	6.460	3.740	2.474	1.418	0.998	0.682	0.450	0.380	0.194

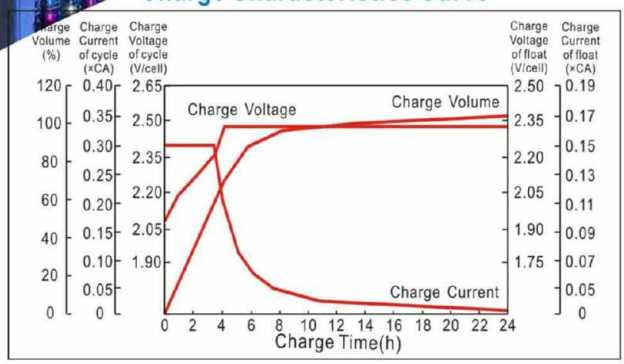
Constant Wattage Discharge Characteristics (Watt), (25°C)

F.V/TIME	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	28.54	18.87	14.18	7.824	5.157	2.905	2.085	1.408	0.932	0.799	0.428
1.70V/cell	26.37	17.80	13.61	7.662	5.063	2.872	2.037	1.388	0.918	0.780	0.413
1.75V/cell	24.01	16.99	12.98	7.495	5.003	2.850	2.018	1.379	0.911	0.773	0.406
1.80V/cell	21.73	16.03	12.33	7.324	4.936	2.829	1.996	1.364	0.900	0.761	0.390

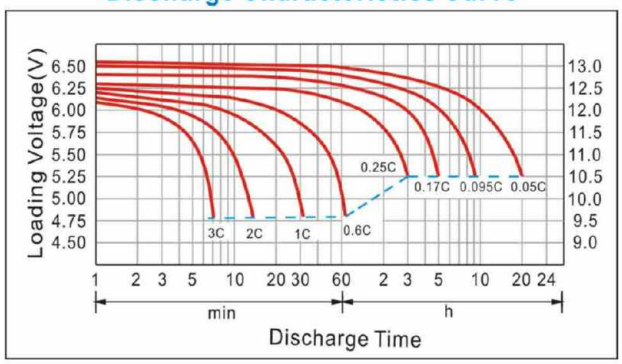
POWER KINGDOM®

PS4-6 (6V4Ah)

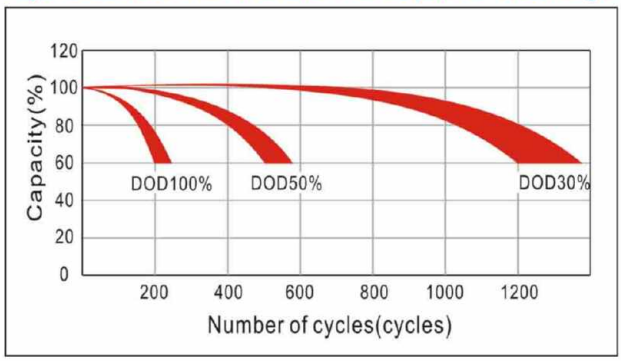
Charge Characteristics Curve



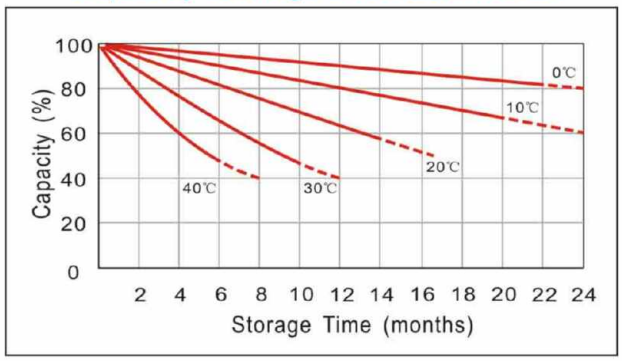
Discharge Characteristics Curve



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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