INVERTRONS

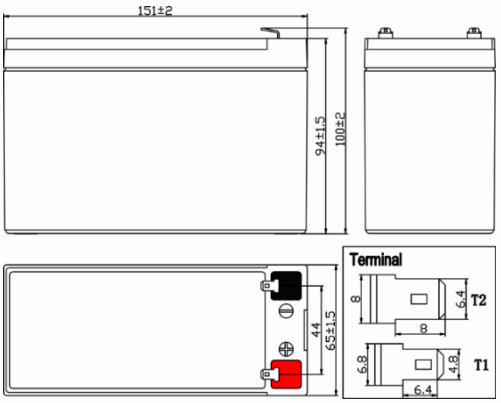
PS7.2-12

(12V 7.2Ah)

SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	7.2Ah	(C_{20},1.75V/cell)
Dimensions(mm)	Length Width Height Total Height	151±2 mm 65±1.5 mm 94±1.5 mm 100±2 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (0.364A to 10.5 volts) 10 Hour rate (0.695A to 10.5 volts) 5 Hour rate (1.242A to 10.5 volts) 1 Hour rate (4.680A to 9.6 volts) 15 min rate (13.86A to 9.6 volts)	7.28Ah 6.95Ah 6.21Ah 4.68Ah 3.46Ah
Approx. Weight	2.05 kg	
Terminal	T1/T2	
Max.Discharge Current	108A @25℃ (5s)	
Internal Resistance	25mΩ @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.	





COMPANY CERTIFICATION

MH28792

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A), (25℃)

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	28.40	18.61	13.86	7.380	4.680	2.637	1.883	1.270	0.841	0.720	0.385
1.70V/cell	25.78	17.24	13.07	7.164	4.576	2.596	1.836	1.251	0.828	0.702	0.372
1.75V/cell	23.15	16.16	12.35	6.948	4.518	2.574	1.818	1.242	0.821	0.695	0.364
1.80V/cell	20.77	15.12	11.63	6.732	4.453	2.552	1.796	1.228	0.810	0.684	0.349

CONSTANT WATTAGE DISCHARGE CHARACTERISTICS (WATT), (25℃)

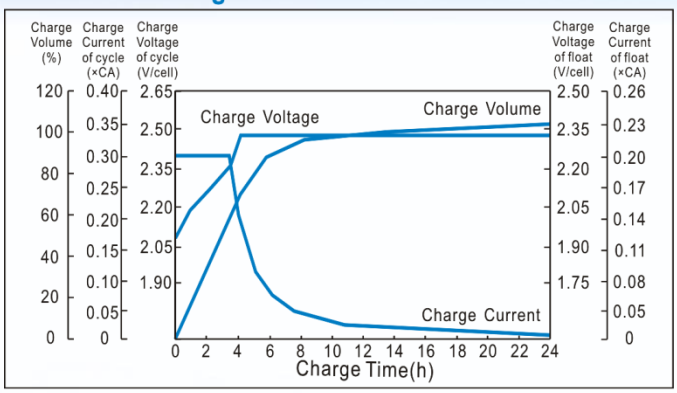
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	51.36	33.97	25.53	14.08	9.282	5.229	3.753	2.534	1.678	1.438	0.770
1.70V/cell	47.47	32.05	24.50	13.79	9.113	5.170	3.666	2.499	1.653	1.404	0.744
1.75V/cell	43.21	30.58	23.36	13.49	9.006	5.131	3.633	2.482	1.640	1.391	0.730
1.80V/cell	39.12	28.85	22.19	13.18	8.884	5.092	3.593	2.455	1.620	1.369	0.701

INVERTRONS

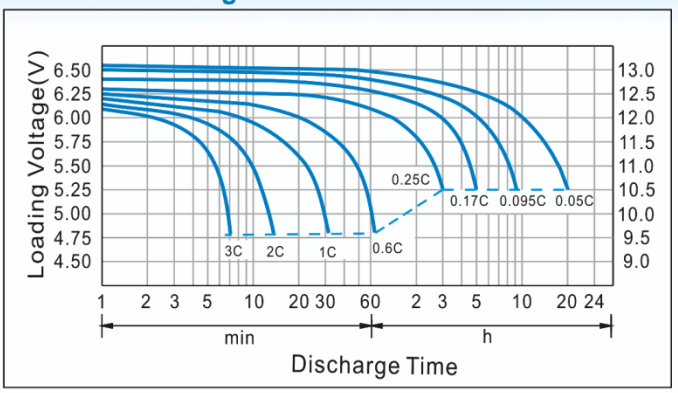
PS7.2-12

(12V 7.2Ah)

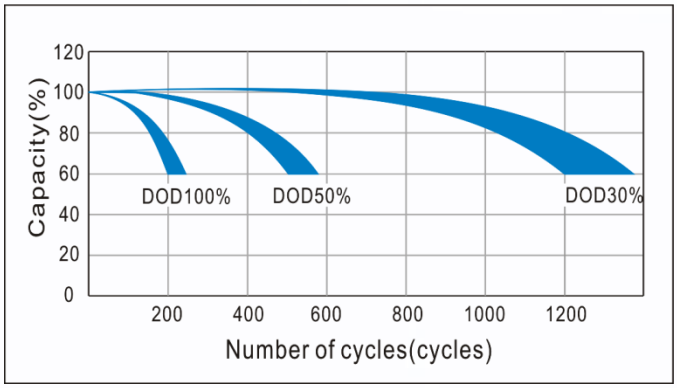
Charge Characteristics Curve



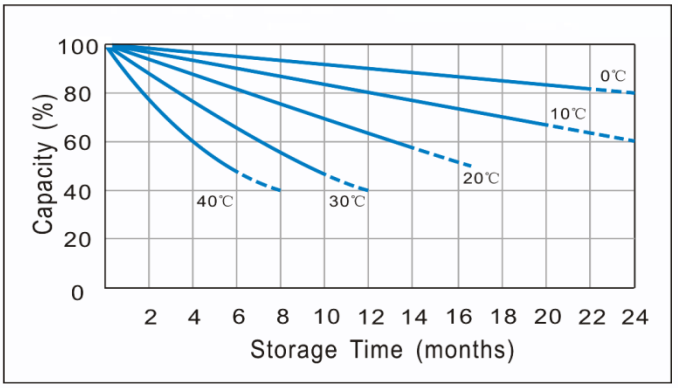
Discharge Characteristics Curve



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+2.45-2.50V/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

Note: The manufacturer reserves the right to change and modify the design and specifications without prior notice