INVERTRONS

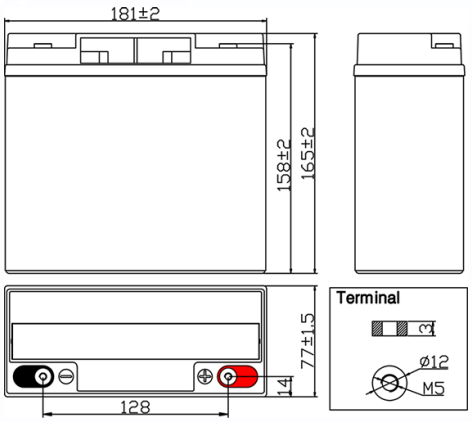
PS17-12

(12V 17Ah)

SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	17Ah	(C_{20},1.75V/cell)
Dimensions(mm)	Length Width Height Total Height	181±2 mm 77±1.5 mm 165±2 mm 165±2 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (0.859A to 10.5 volts) 10 Hour rate (1.641A to 10.5 volts) 5 Hour rate (2.933A to 10.5 volts) 1 Hour rate (11.05A to 9.6 volts) 15 min rate (32.73A to 9.6 volts)	17.1Ah 16.4Ah 14.6Ah 11.0Ah 8.18Ah
Approx. Weight	4.9 kg	
Terminal	T10	
Max.Discharge Current	255A @25℃ (5s)	
Internal Resistance	15mΩ @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	67.07	43.95	32.73	17.43	11.05	6.225	4.446	2.999	1.986	1.700	0.910
1.70V/cell	60.86	40.72	30.86	16.92	10.80	6.129	4.335	2.955	1.955	1.658	0.877
1.75V/cell	54.66	38.17	29.16	16.41	10.67	6.078	4.293	2.933	1.938	1.641	0.859
1.80V/cell	49.05	35.70	27.46	15.90	10.51	6.027	4.242	2.899	1.913	1.615	0.825

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

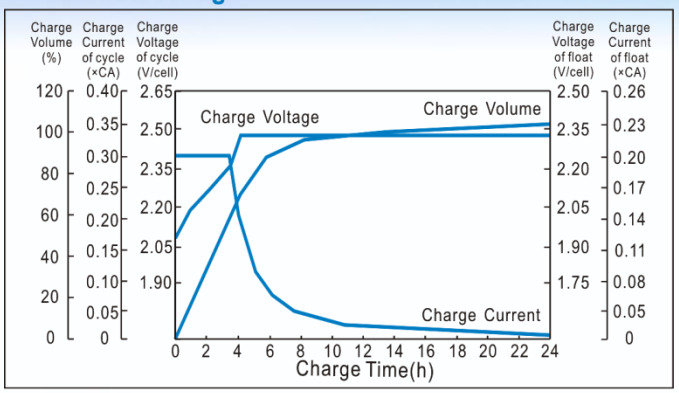
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	121.3	80.20	60.27	33.25	21.92	12.35	8.861	5.983	3.961	3.394	1.819
1.70V/cell	112.1	75.66	57.85	32.56	21.52	12.21	8.656	5.899	3.903	3.315	1.757
1.75V/cell	102.0	72.20	55.15	31.85	21.26	12.11	8.578	5.860	3.873	3.284	1.724
1.80V/cell	92.37	68.13	52.39	31.13	20.98	12.02	8.483	5.797	3.825	3.233	1.656

INVERTRONS

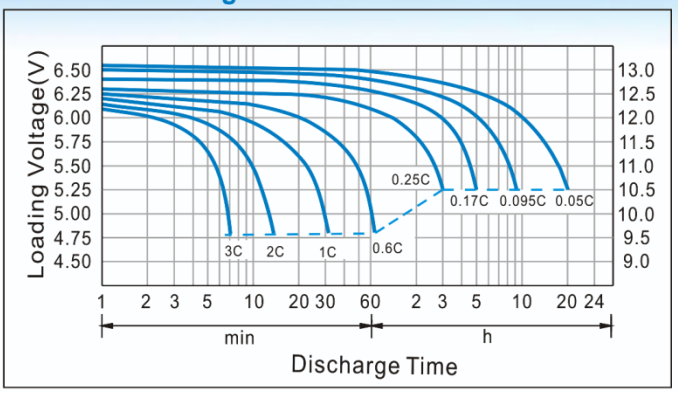
PS17-12

(12V 17Ah)

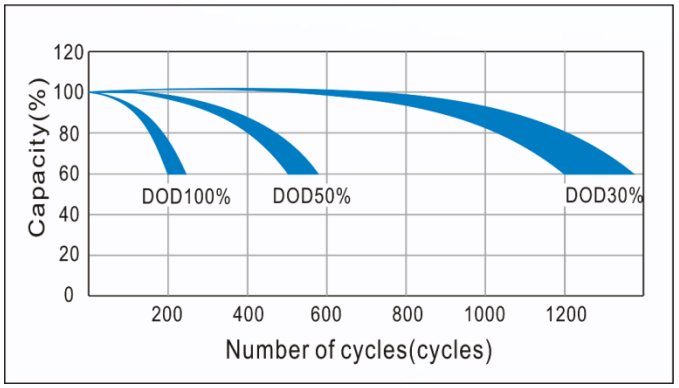
Charge Characteristics Curve



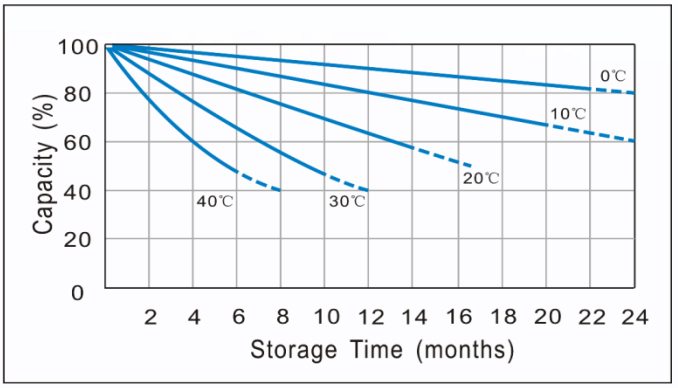
Discharge Characteristics Curve



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