INVERTRONS

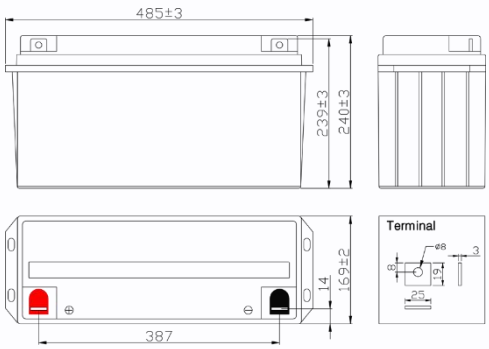
PK150-12

(12V 150Ah)

SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	150.0Ah	(C_{10},1.80V/cell)
Dimensions(mm)	Length Width Height Total Height	485±3 mm 169±2 mm 240±3 mm 240±3 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (8.040A to 10.8 volts) 10 Hour rate (15.15A to 10.8 volts) 5 Hour rate (25.94A to 10.8 volts) 1 Hour rate (94.95A to 10.5 volts)	160.8Ah 151.5Ah 129.7Ah 94.9Ah
Approx. Weight	40.5 kg	
Terminal	T9-B	
Max.Discharge Current	1200A @25℃ (5s)	
Internal Resistance	4.0mΩ @25℃ (Full Charged Battery)	
Floating Design Life	10 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	502.5	322.5	262.5	168.8	97.50	58.28	40.32	27.05	18.63	15.75	8.640
1.70V/cell	442.5	292.5	251.3	164.3	96.15	57.53	39.83	26.73	18.33	15.45	8.340
1.75V/cell	397.5	270.0	237.8	159.8	94.95	56.78	39.38	26.33	18.15	15.30	8.190
1.80V/cell	345.0	244.5	222.8	153.6	93.00	56.00	38.63	25.94	17.88	15.15	8.040

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

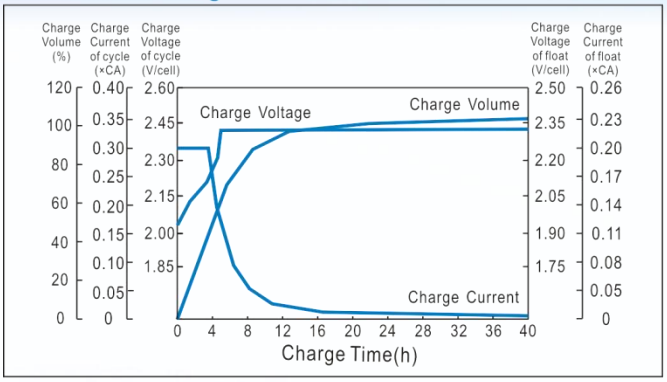
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	866.8	575.1	476.9	315.0	186.9	113.6	79.97	53.77	37.07	31.37	17.27
1.70V/cell	781.8	531.4	462.7	309.3	185.1	112.7	79.19	53.28	36.57	30.85	16.68
1.75V/cell	712.2	497.3	441.8	303.5	183.6	111.7	78.49	52.61	36.30	30.60	16.38
1.80V/cell	626.8	456.4	417.7	294.4	180.6	111.1	77.19	51.87	35.76	30.30	16.08

INVERTRONS

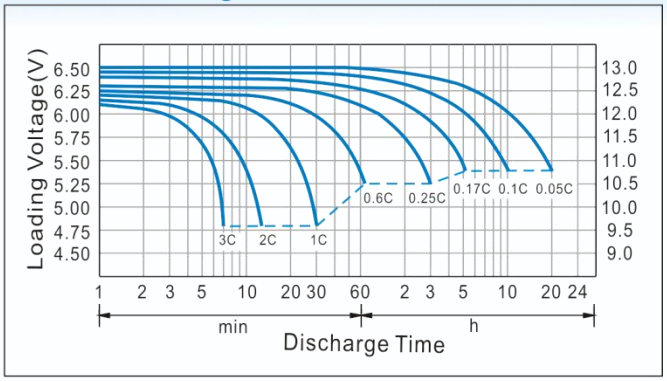
PK150-12

(12V 150Ah)

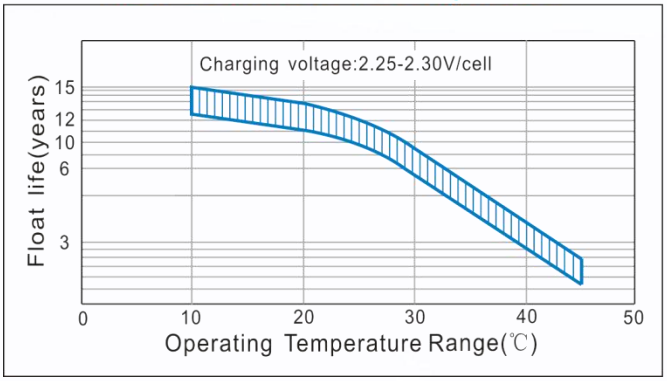
Charge Characteristics Curve



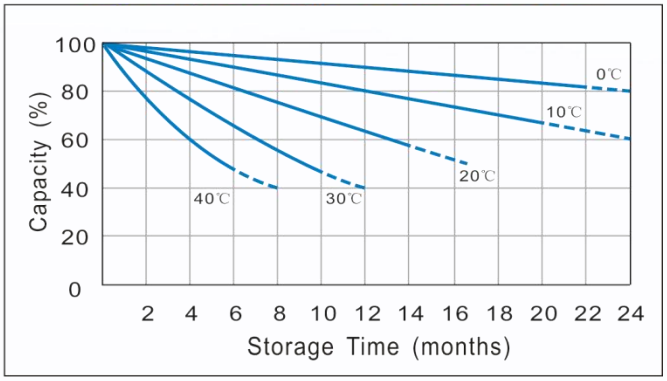
Discharge Characteristics Curve



Float Service Life VS Temperature



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		2.40~2.45 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 2.40-2.45V/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℃. Charging Method:
Constant Voltage: -0.2C×2h+2.40~2.45V/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

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