INVERTRONS

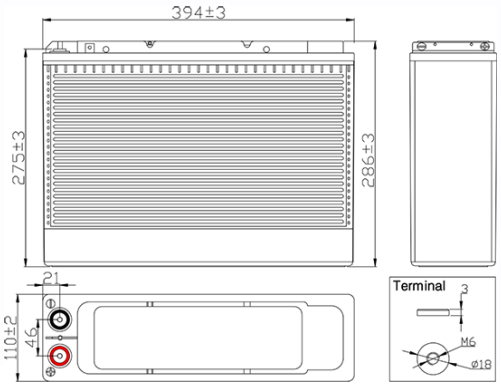
PK100-12FTG

(12V 100Ah)

SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	100.0Ah	(C_{10},1.80V/cell)
Dimensions(mm)	Length Width Height Total Height	394±3 mm 110±2 mm 286±3 mm 286±3 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (5.360A to 10.8 volts) 10 Hour rate (10.10A to 10.8 volts) 5 Hour rate (17.29A to 10.8 volts) 1 Hour rate (63.30A to 10.5 volts)	107.2Ah 101.0Ah 86.4Ah 63.3Ah
Approx. Weight	30 kg	
Terminal	T13	
Max.Discharge Current	800A @25℃ (5s)	
Internal Resistance	5.0mΩ @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

ISO 9001 · ISO 14001 · OHSAS 18001

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

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	335.0	215.0	175.0	112.5	65.00	38.85	26.88	18.03	12.42	10.50	5.760
1.70V/cell	295.0	195.0	167.5	109.5	64.10	38.35	26.55	17.82	12.22	10.30	5.560
1.75V/cell	265.0	180.0	158.5	106.5	63.30	37.85	26.25	17.55	12.10	10.20	5.460
1.80V/cell	230.0	163.0	148.5	102.4	62.00	37.33	25.75	17.29	11.92	10.10	5.360

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

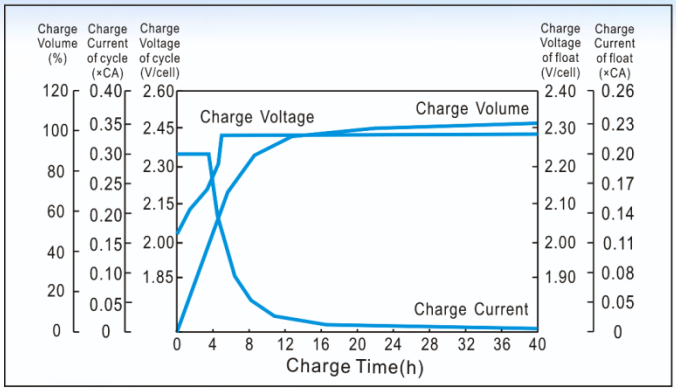
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	577.9	383.4	317.9	210.0	124.6	75.76	53.31	35.85	24.72	20.91	11.51
1.70V/cell	521.2	354.3	308.5	206.2	123.4	75.10	52.79	35.52	24.38	20.57	11.12
1.75V/cell	474.8	331.5	294.5	202.4	122.4	74.44	52.33	35.07	24.20	20.40	10.92
1.80V/cell	417.8	304.3	278.4	196.3	120.4	74.04	51.46	34.58	23.84	20.20	10.72

INVERTRONS

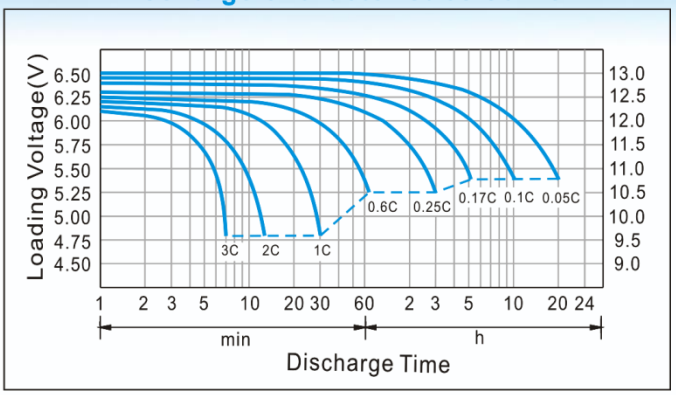
PK100-12FTG

(12V 100Ah)

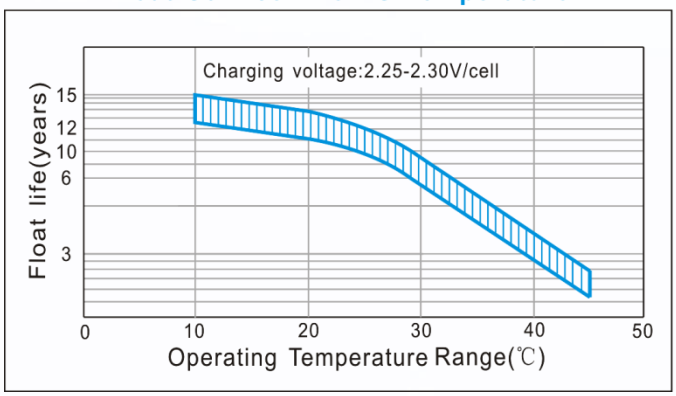
Charge Characteristics Curve



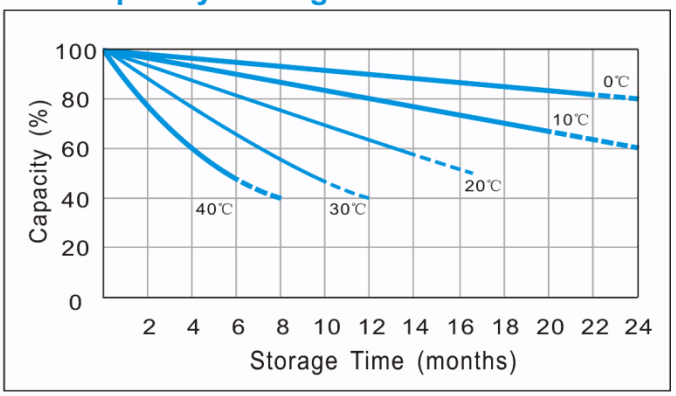
Discharge Characteristics Curve



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