INVERTRONS

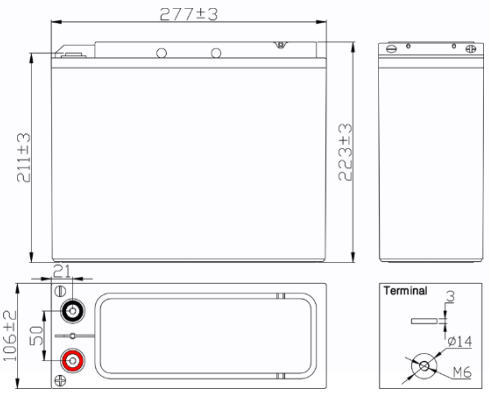
PK55-12FT

(12V 55Ah)

SPECIFICATION

Nominal Voltage	12V (6 cells in series)	
Rated Capacity	55.0Ah	(C_{10},1.80V/cell)
Dimensions(mm)	Length Width Height Total Height	277±3 mm 106±2 mm 223±3 mm 223±3 mm
Nominal Capacity @25℃ (Ah)	20 Hour rate (2.948A to 10.8 volts) 10 Hour rate (5.555A to 10.8 volts) 5 Hour rate (9.510A to 10.8 volts) 1 Hour rate (34.82A to 10.5 volts)	58.9Ah 55.5Ah 47.5Ah 34.8Ah
Approx. Weight	16.5 kg	
Terminal	T12	
Max.Discharge Current	440A @25℃ (5s)	
Internal Resistance	7mΩ @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

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

F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	184.3	118.3	96.25	61.88	35.75	21.37	14.78	9.917	6.831	5.775	3.168
1.70V/cell	162.3	107.3	92.13	60.23	35.26	21.09	14.60	9.801	6.721	5.665	3.058
1.75V/cell	145.8	99.00	87.18	58.58	34.82	20.82	14.44	9.653	6.655	5.610	3.003
1.80V/cell	126.5	89.65	81.68	56.32	34.10	20.53	14.16	9.510	6.556	5.555	2.948

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

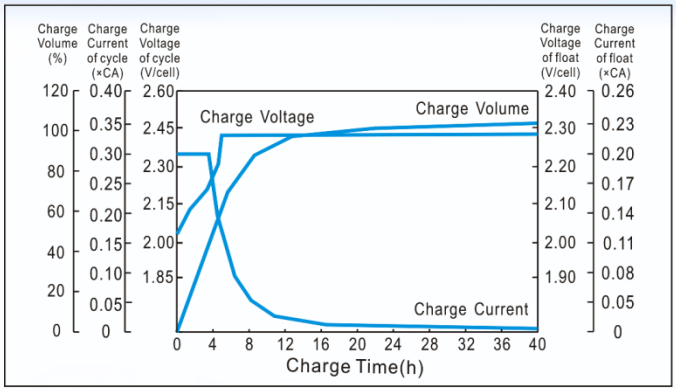
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	317.8	210.9	174.9	115.5	68.52	41.67	29.32	19.72	13.59	11.50	6.331
1.70V/cell	286.6	194.8	169.7	113.4	67.87	41.31	29.03	19.54	13.41	11.31	6.116
1.75V/cell	261.1	182.3	162.0	111.3	67.31	40.94	28.78	19.29	13.31	11.22	6.006
1.80V/cell	229.8	167.3	153.1	107.9	66.21	40.72	28.30	19.02	13.11	11.11	5.896

INVERTRONS

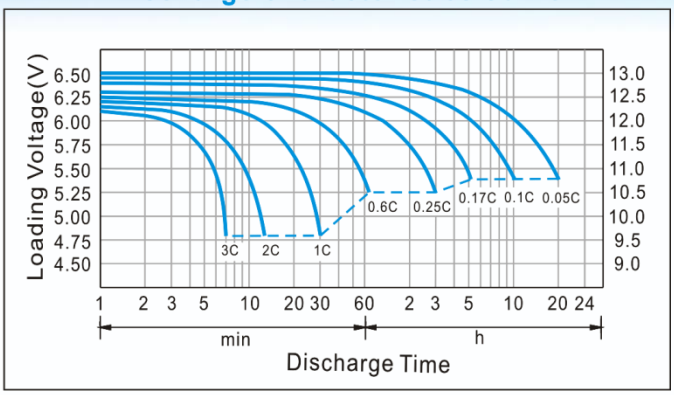
PK55-12FT

(12V 55Ah)

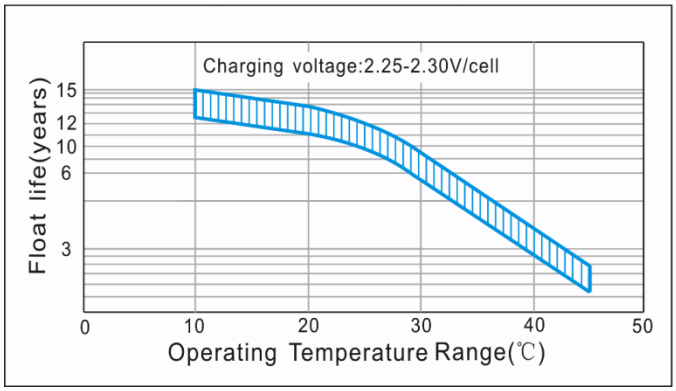
Charge Characteristics Curve



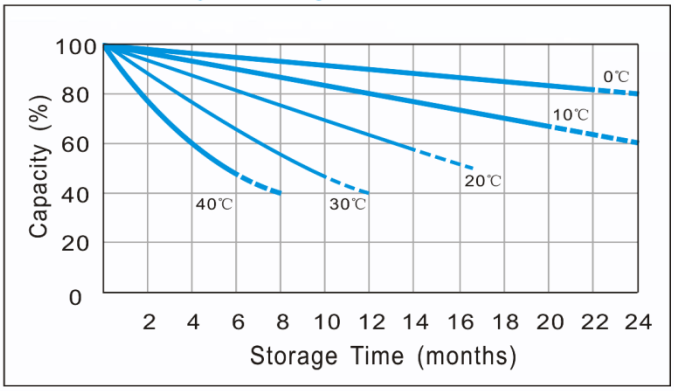
Discharge Characteristics Curve



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