

Front Terminal BATTERY

Deep Cycle GEL

FT12-100(12V100Ah)

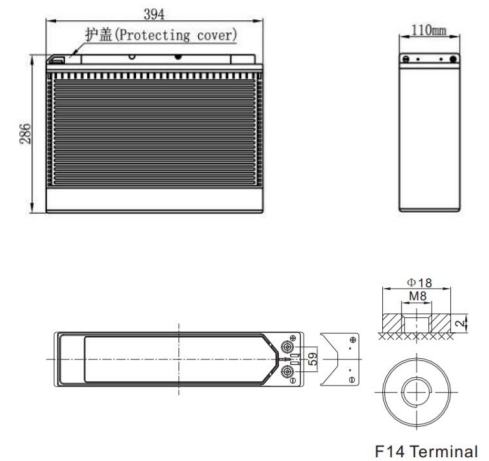


Specifications

Rated Voltage		12V
Nominal Capacity		100Ah (C10, 1.75V/cell)
Dimension	Length	394±2mm (15.76 inches)
	Width	110±2mm (4.4 inches)
	Container Height	286±2mm (11.44 inches)
	Total Height	286±2mm (11.44 inches)
Weight		Approx. 30.8 Kg(67.76 lbs)
Terminal		F14(M8)
Container Material		A.B.S. UL94-HB, UL94-V0 Optional
Rated Capacity(25°C)	106.4 Ah	C20 (20hr,1.75V/cell)
	100.0 Ah	C10 (10h,1.75V/cell)
	85.0 Ah	C5 (5h,1.75V/cell)
	76.8 Ah	C3 (3hr,1.75V/cell)
Max. Discharge Current		1000A (5s)
Internal Resistance(25°C)		Approx. 7.3mΩ
Operating Temp. Range	Discharge	-20 ~ 60°C (-4 ~ 140°F)
	Charge	-10 ~ 50°C (14 ~ 122°F)
	Storage	-20 ~ 60°C (-4 ~ 140°F)
Nominal Operating Temp.Range		25±5°C (77±5°F)
Cycle Use	Initial Charging Current less than 20A. Voltage 14.6V~14.8V at 25°C (77°F)Temp. Coefficient -4mV/ °C	
Standby Use	Initial Charging Current less than 20A. Voltage 13.6V~13.8V at 25°C (77°F)Temp. Coefficient -3mV/°C	
Effect of temp. to Capacity	40 °C (104°F)	103%
	25 °C (77°F)	100%
	0 °C (32°F)	86%
Self Discharge		BP series batteries may be stored for up to 6 months at 25 °C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Layout



F14 Terminal

Constant Current Discharge Data Sheet (@25°C) Unit: A

End Voltage (V)	10 min	15 min	30 min	1h	1.5 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60V	261	217	105	64.9	51.3	42.4	26.9	18.7	13.2	10.9	5.70
1.65V	249	207	99.6	63.3	50.0	41.4	26.2	18.2	13.0	10.8	5.65
1.70V	237	197	94.9	61.8	48.8	40.4	25.6	17.8	12.7	10.7	5.59
1.75V	218	184	91.0	59.3	46.9	39.0	24.8	17.0	12.0	10.4	5.49
1.80V	198	172	88.0	56.9	45.0	37.4	23.9	16.3	11.4	10.0	5.32

Constant Power Discharge Data Sheet (@25°C) Unit: W

End Voltage (V)	10 min	15 min	30 min	1h	1.5 h	2 h	3 h	5 h	8 h	10 h	20 h
1.60V	2895	2340	1309	814	594	447	333	215	158	132	68.9
1.65V	2757	2228	1246	794	579	436	325	210	155	130	68.2
1.70V	2626	2122	1187	775	565	425	317	205	152	129	67.5
1.75V	2230	1905	1160	763	557	411	307	198	150	125	65.4
1.80V	2081	1818	1135	728	531	397	296	191	148	119	63.9

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Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

General Features

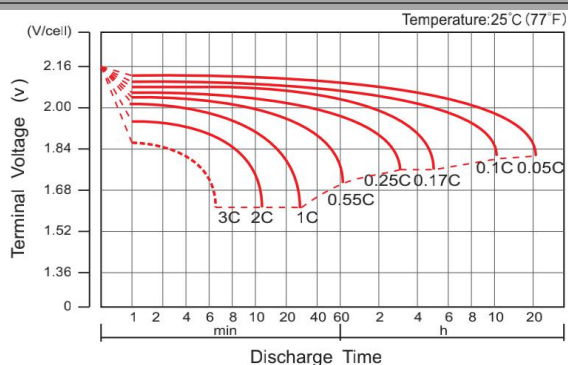
- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge

Standards

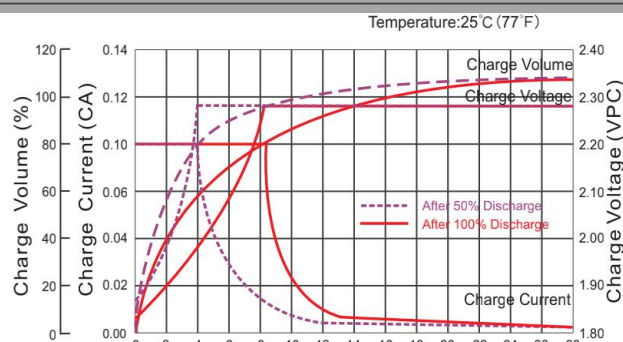
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in ISO45001,ISO 9001 and ISO 14001 certified production facilities

⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

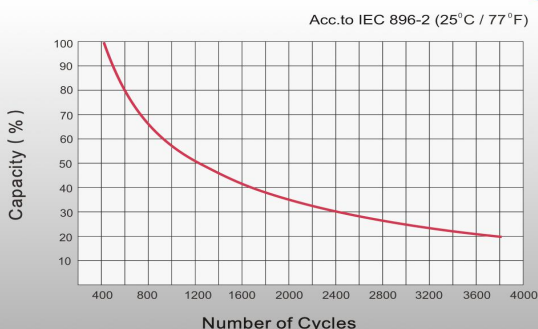
Discharge Characteristics



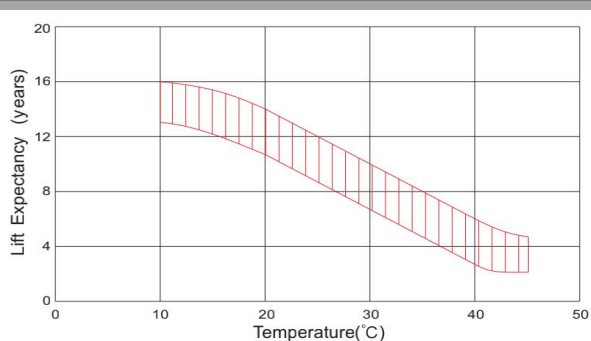
Charge Characteristic



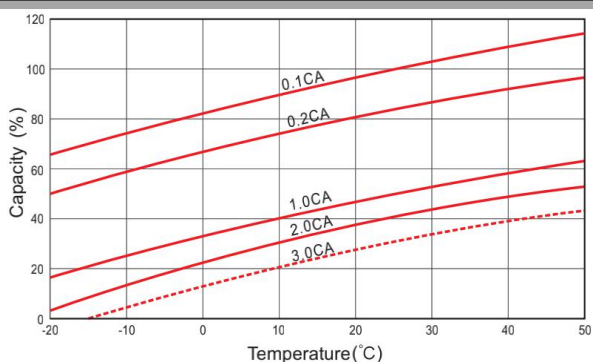
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

