

# FT 12V200-250Ah (C10-C100)

## Introduction

PLUS ENERGY Battery Front Terminal series are designed for 15 years life in floating service. They are featured with high consistency, long service life and excellent recovery from deep discharge. The Front Terminal series batteries are widely used in Telecom, UPS, electrical instrument, medical equipment, solar and wind energy etc.

## Battery Features

- 15 years floating design life
- Excellent consistency
- High reliability
- Low self-discharge
- Good recovery from deep discharge

## Electrical Specification

Design floating Life @ 20°C (68°F)	15 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 10.0 A to 1.80Vpc	210.0 Ah
10 hour rate 19.0 A to 1.80Vpc	200.0Ah
5 hour rate 33.3 A to 1.75Vpc	166.5Ah
hour rate 124 A to 1.60Vpc	124.0Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	3.5 mΩ
Max. Discharge Current @ 25°C /77°F	1300A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.4 ~ 15.0V
Max. Current	54A
Standby Use	13.5V - 13.8V
Operating Temperature Range	
Discharge	-20 ~ 55°C
Charge	0 ~ 40°C
Storage	-20 ~ 55°C
Recommended Operating Temp	20 ~ 25°C

## Self-Discharge

The capacity declines by 3% per month @ 20°C (68°F). The batteries can be stored up to 6 months @ 25°C (77°F) and then a freshening charge is required. The interval under higher temperature would be shorter.

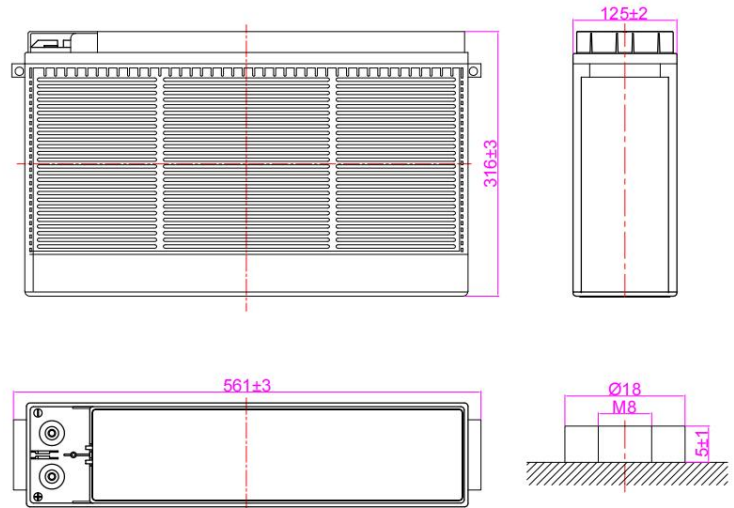
## Typical Applications



## Certificates



## Dimensions



## Dimension and Weight

Dimension				Weight (± 3%)	Terminal
Length	Width	Height	Total Height		
561 mm	125 mm	316 mm	316 mm	55.2kg	F6
22.1inch	4.92 inch	12.4 inch	12.4 inch	121.7lbs	

## Constant Current Discharge\* (Amperes @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	352	224	124	48.5	33.9	20.3	11.2
1.65V	343	220	122	48.2	33.7	20.3	11.1
1.70V	330	213	119	47.8	33.5	20.2	11.1
1.75V	319	208	116	47.5	33.3	20.1	11.0
1.80V	302	200	113	46.1	32.3	20.0	11.0

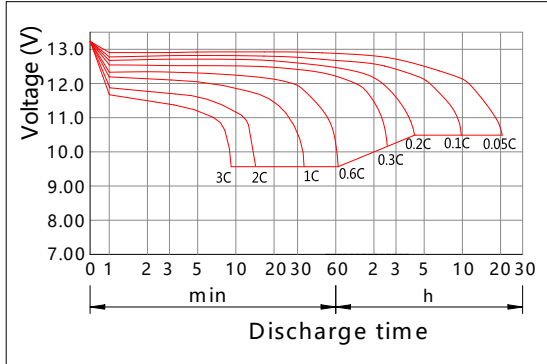
## Constant Power Discharge\* (Watts/cell @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	3859	2516	1408	570	401	231	122
1.65V	3767	2465	1387	566	399	230	122
1.70V	3628	2390	1352	563	396	230	121
1.75V	3504	2332	1325	559	393	228	121
1.80V	3319	2246	1284	542	381	227	120

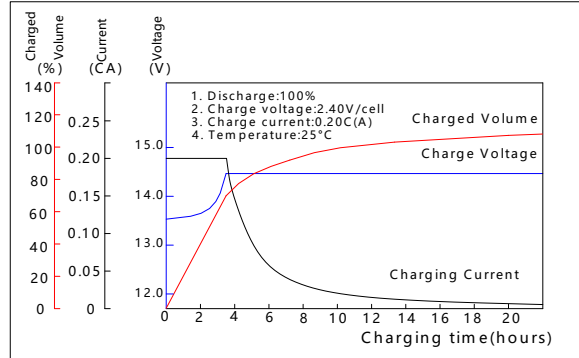
\*The mentioned data are derived from of sample test result, for reference only.

## Graphs

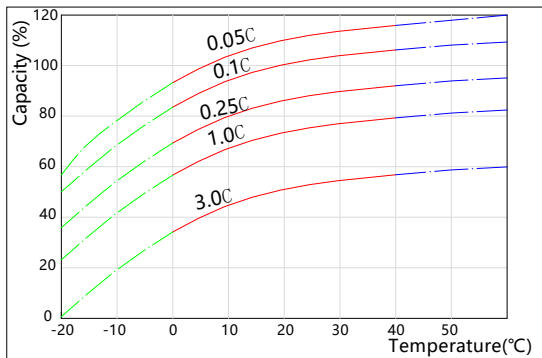
### Discharge Characteristics(25°C)



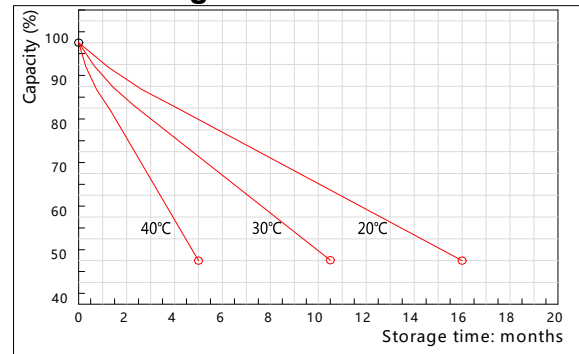
### Charging Characteristics(25°C)



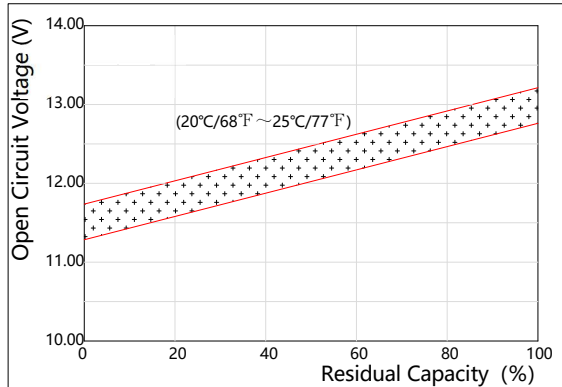
### Effect of Temperature on Capacity



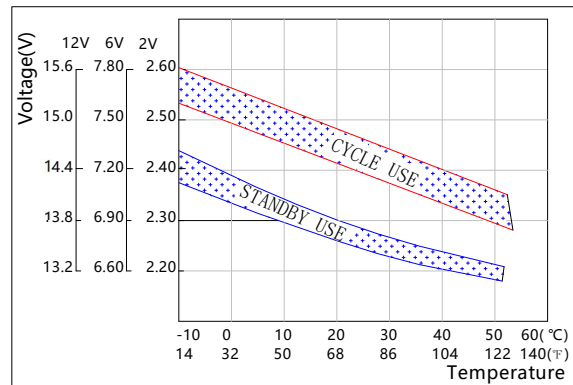
### Self-discharge Characteristics



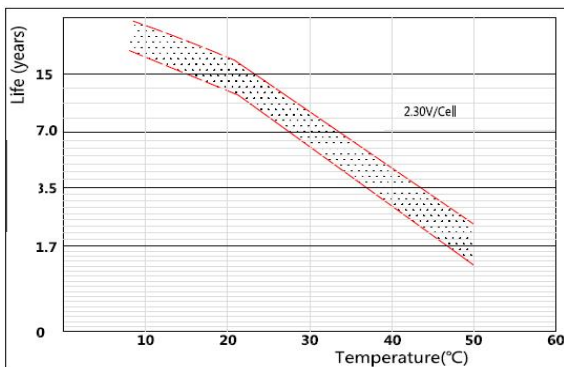
### The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



### The Relationship between Charging Voltage and Temperature



### Floating Life on Temperature



### Cycle Life on D.O.D(25°C)

