TP 12V200-250Ah(C10-C100)

PlusEnergy
WccSolar

Introduction

TP series are made of Lead paste suitable for big current discharging, special alloy of high corrosion resistance. They are disposed of unique designed disgassing structure and sealing technology.TP series are featured with high rate current discharge,high reliability,low self-discharge,flexible installation and easy maintenance.

Battery Features

- 12 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) …… …….. 12 years

Nominal Capacity @ 25°C /77°F

20 hour rate 10.5 A to 1.80Vpc … .. …….. 210Ah

10 hour rate 20.0 A to 1.80Vpc …… ….. 200Ah

5 hour rate 35.0 A to 1.75Vpc …….. ……. 175Ah

1 hour rate 130 A to 1.60Vpc ……..…… 130Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) ……. 3.7 mΩ

Max. Discharge Current @ 25°C /77°F ……1000A (5S)

Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use …… 14.4 ~ 15.0V

Max. Current ……50A

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

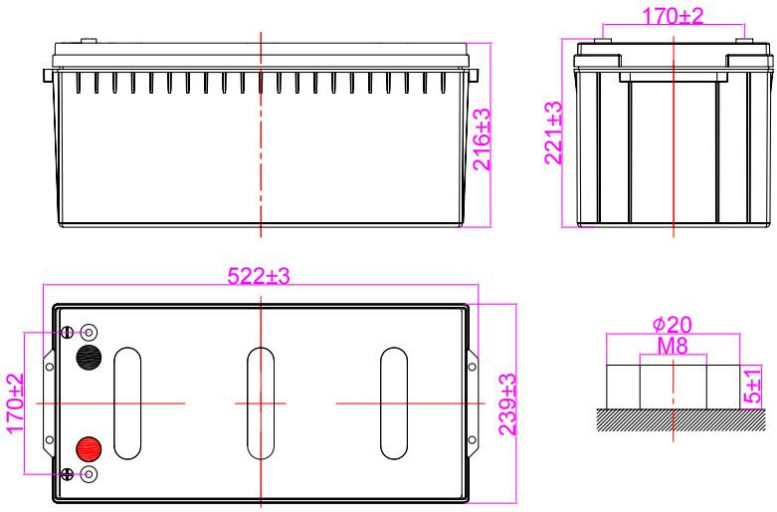
The capacity declines by 3% per month@ 20°C (68°F). The batteries can be stored up to 6 months @ 25°C (77°F) and then a freshening charge is required. The interval under higher temperature would be shorter.

Typical Applications

UPS
Telecom
Electric system

Certificates

Dimensions



Dimension and Weight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
522 mm	239 mm	216 mm	221 mm	57.3kg	F7
20.6 inch	9.41 inch	8.50 inch	8.70 inch	126.3lbs	

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	370	236	130	51.0	35.7	20.4	10.7
1.65V	361	231	128	50.7	35.5	20.3	10.7
1.70V	348	224	125	50.4	35.2	20.3	10.6
1.75V	336	219	122	50.0	35.0	20.1	10.6
1.80V	318	211	119	48.5	34.0	20.0	10.5

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	4063	2648	1482	600	422	243	128
1.65V	3965	2595	1460	596	419	243	128
1.70V	3819	2516	1423	592	417	242	128
1.75V	3689	2455	1395	588	414	240	127
1.80V	3494	2365	1352	570	401	239	126

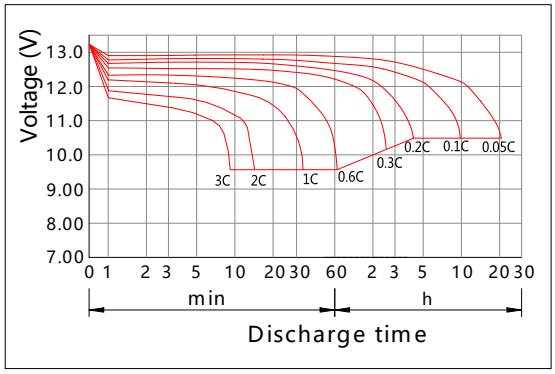
*The mentioned data are derived from of sample test result, for reference only.

TP 12V200-250Ah(C10-C100)

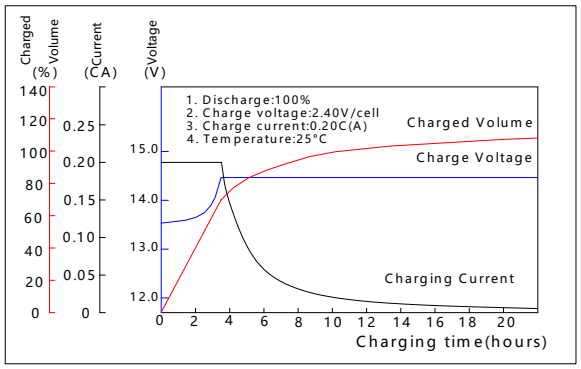
PlusEnergy
WccSolar

Graphs

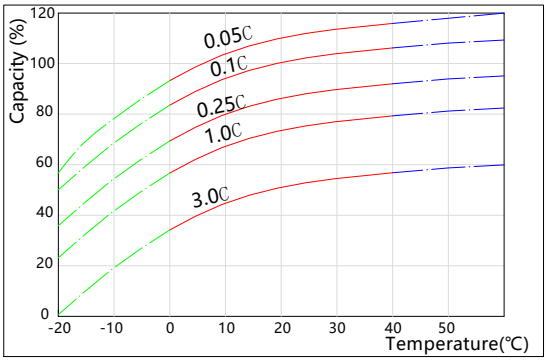
Discharge Characteristics(25℃)



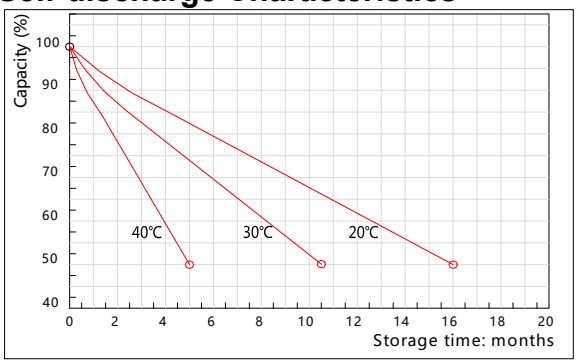
Charging Characteristics(25℃)



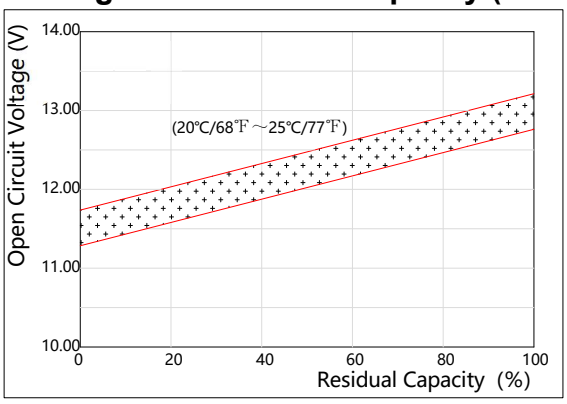
Effect of Temperature on Capacity



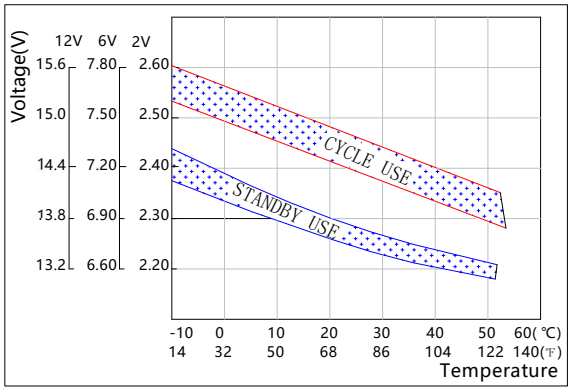
Self-discharge Characteristics



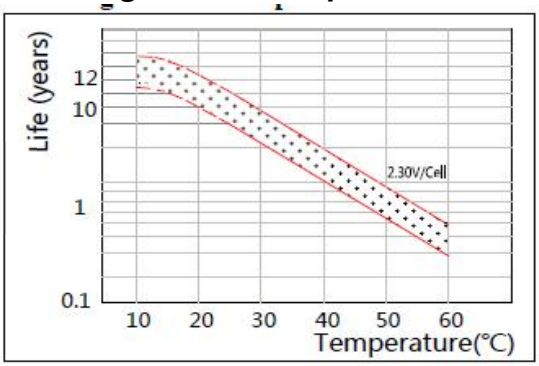
The Relationship between Open Circuit Voltage and Residual Capacity (25℃)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)