



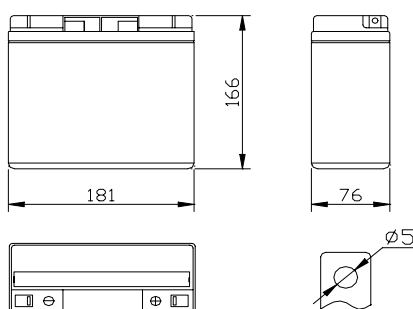
CP12-18 12V18Ah



The battery is constructed by plates, separators, safety valves and container.

Since the electrolyte is held by a glassmat separator and plates, the battery can use in any direction and position without leakage.

Outer Dimensions



Dimensions and Weight

Length (mm / inch)	181 / 7.73
Width (mm / inch)	76 / 2.99
Height (mm / inch)	166 / 6.54
Total Height (mm / inch)	166 / 6.54
Approx.Weight(Kg / lbs)	5.75 / 12.65

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	6 years
Nominal Capacity 77°F(25°C)	
20 hour rate(0.9A,10.5V)	18Ah
10 hour rate(1.67A,10.5V)	16.7Ah
5 hour rate (3.06 A,10.5V)	15.3Ah
1 hour rate(11.6A,9.6V)	11.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	15 mΩ
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25°C)	360A(5s)
Short Circuit Current	900A
Charge Methods:Constant Voltage Charge 77°F(25°C)	
Cycle use	14.5-15.0V
Maximum charging current	5.4A
Temperature compensation	-30mV/°C
Standby use	13.4-13.8V
Temperature compensation	-20mV/°C

Battery Construction

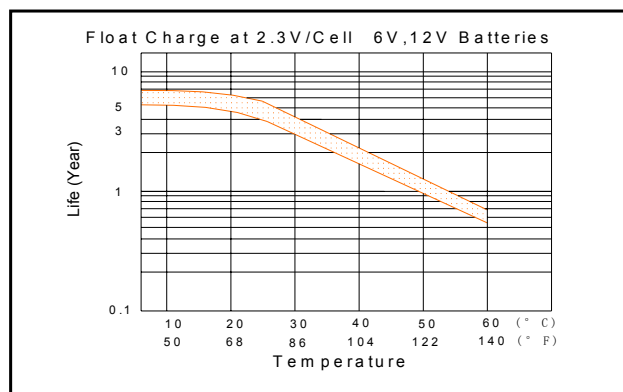
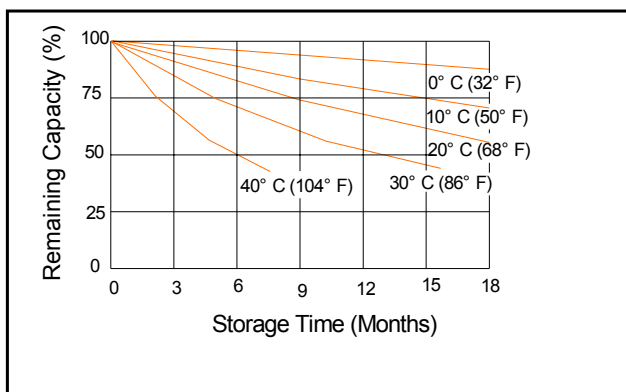
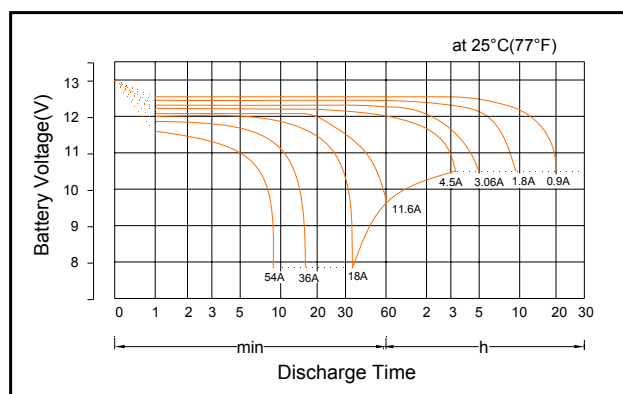
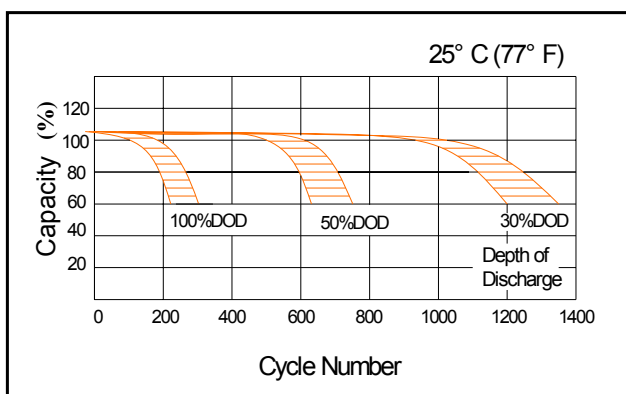
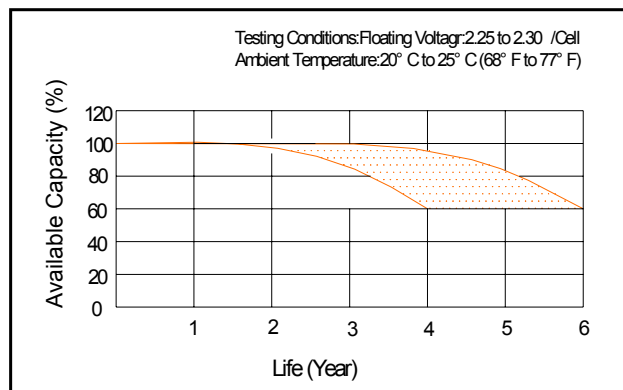
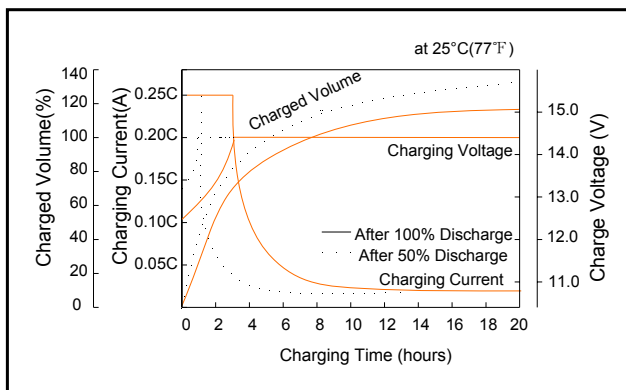
COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Charging Methods

Application	Charging method	Charging Voltage at 25° C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 25°C(h)		Temp (° C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-20 mV/° C	5.4A	24	20	0~40 (32~104° F)
For cycle service		14.5-15.0V	-30 mV/° C	5.4A	16	10	

*Temperature compensation of charging voltage is not needed when using the batteries within 15° C to 35° C range.

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Discharge Constant Current (Amperes at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	63.0	50.4	36.0	20.8	14.7	11.8	6.30	4.55	3.09	2.03	1.69	0.92
1.65V	61.2	48.6	34.2	20.3	14.6	11.6	6.25	4.53	3.08	2.03	1.69	0.92
1.70V	57.6	45.0	32.4	19.8	14.4	11.5	6.22	4.50	3.06	2.01	1.67	0.90
1.75V	50.4	37.8	30.6	18.7	14.2	11.3	6.12	4.45	3.06	2.00	1.67	0.90
1.80V	45.0	32.4	28.8	16.2	14.1	11.1	5.94	4.32	3.03	2.00	1.64	0.88

Discharge Constant Power (Watts/cell at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	114.7	92.0	66.3	40.1	28.1	22.6	12.1	8.79	5.97	3.94	3.29	1.80
1.65V	110.0	88.2	62.7	38.8	27.7	22.1	12.1	8.74	5.94	3.93	3.27	1.80
1.70V	104.7	83.0	59.7	37.0	27.3	22.1	12.0	8.69	5.91	3.93	3.27	1.78
1.75V	91.8	70.0	56.4	34.7	27.0	21.8	11.8	8.59	5.91	3.88	3.24	1.75
1.80V	82.0	63.0	53.2	30.1	26.7	21.4	11.4	8.33	5.86	3.88	3.19	1.72



Shenzhen cerropower company Ltd

Address: Room 8H, Luhua Building, Guangxia Road, Futian District, Shenzhen, China 518109

TEL: (+86-755) 83119966 FAX: (+86-755) 83119980 sales@cerropower.com

WWW.COOPower.COM