

CT12-180X 12V 180Ah(10hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



Battery Construction

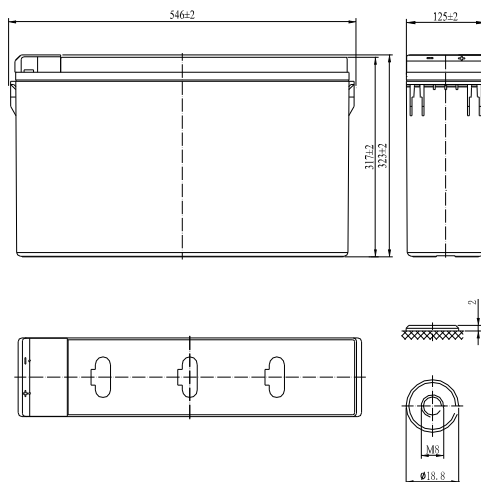
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- Case and cover available in both standard and flame retardant ABS.

Dimensions and Weight

Length(mm / inch)	546 / 21.5
Width(mm / inch)	125 / 4.92
Height(mm / inch)	317 / 12.5
Total Height(mm / inch)	323 / 12.7
Approx. Weight(Kg / lbs)	53 / 116.9



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (18A, 10.8V)	180Ah
5 hour rate (32.4A, 10.5V)	162.0Ah
1 hour rate (116A, 9.6V)	116Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	3.8mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max. Discharge Current 77°F(25°C)	1050A(5s)
Short Circuit Current	2700A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.30-2.35VPC
Maximum charging current	48A
Temperature compensation	-30mV/ °C
Standby use	2.23-2.27VPC
Temperature compensation	-20mV/ °C

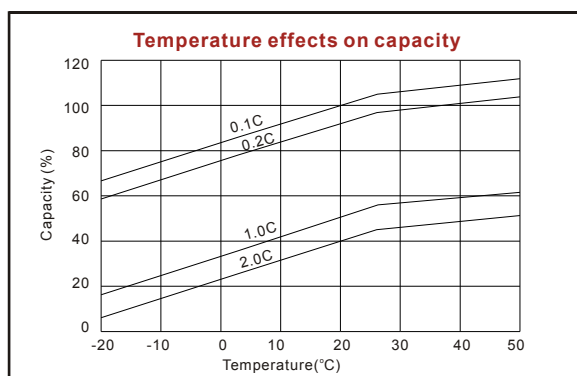
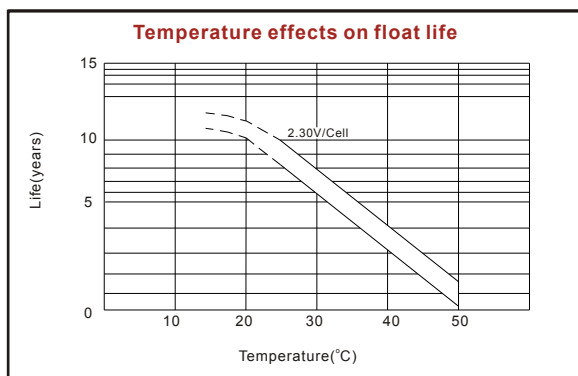
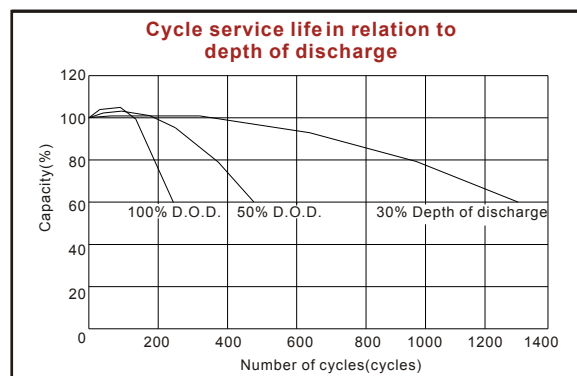
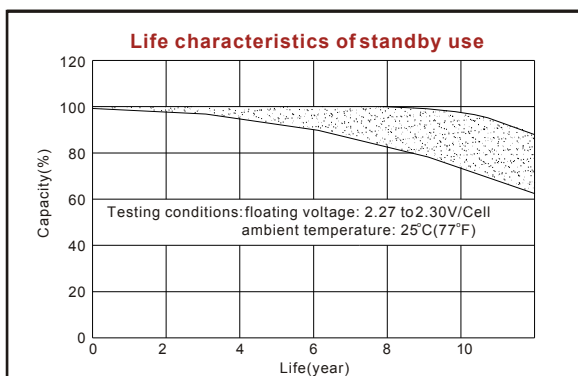
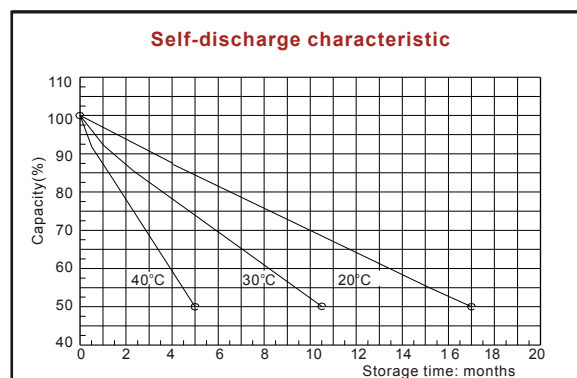
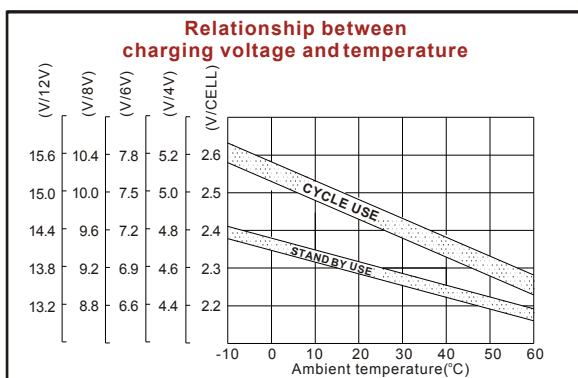
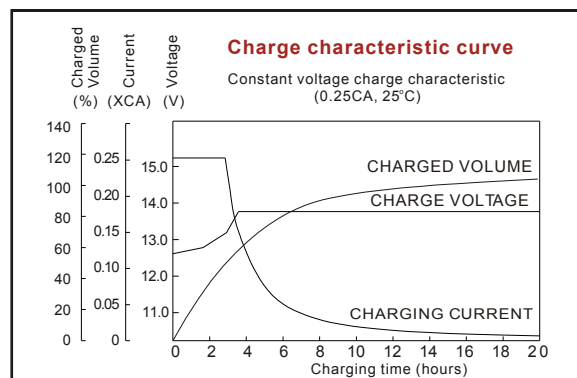
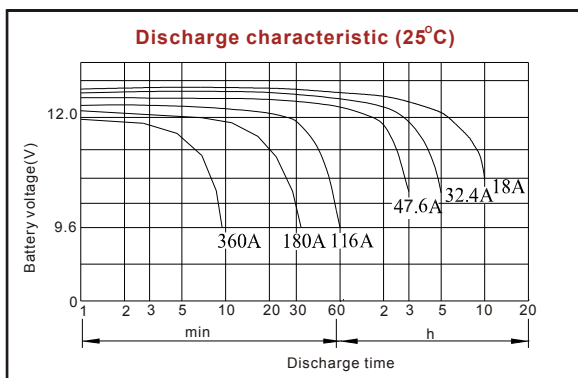
Discharge Constant Current (Amperes at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		312	198	147	116	50.6	33.3	18.4
1.65V		294	191	142	113	49.7	33.1	18.3
1.70V		273	183	136	109	48.7	32.8	18.2
1.75V		250	174	130	105	47.6	32.4	18.1
1.80V		225	164	123	100	46.5	32.0	18.0

Discharge Constant Power (Watts at 68°F20°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		536	358	276	220	132	96.8	62.8
1.65V		508	343	264	216	130	95.6	62.3
1.70V		478	326	255	211	127	94.3	61.7
1.75V		446	308	245	206	124	92.9	61.1
1.80V		412	289	235	200	121	91.5	60.5

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



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