

CT12-150X 12V 150Ah (10hr) Sealed Lead Acid (SLA) Battery

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

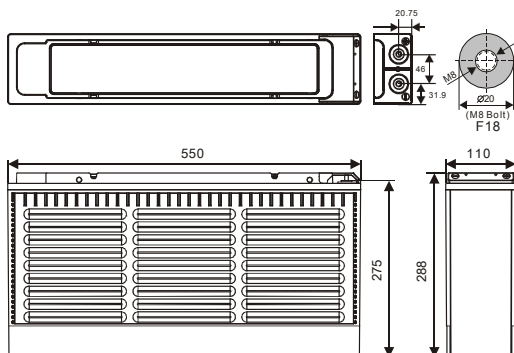
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

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.
- Valve Regulated Lead Acid (VRLA) battery
- V0 Class Flame-Retardant ABS (UL94V-0) container and cover
- Six months shelf life at 25°C
- Design life 10 years depend on temperature, float charging*

Dimensions and Weight

Length(mm / inch)	550 / 21.65
Width(mm / inch)	110 / 4.33
Height(mm / inch)	288 / 11.34
Total Height(mm / inch)	288 / 11.34
Approx. Weight(Kg / lbs)	50.5 / 111.3



Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	10 years*
Nominal Capacity 77°F(25°C)	
10 hour rate (15.0, 10.8V)	150Ah
5 hour rate (25.5A, 10.2V)	127.5Ah
1 hour rate (90A, 9.6V)	90Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	4.5mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range, Relative Humidity Range	
Discharge	-20~60°C, Max 90%
Charge	-10~60°C, Max 90%
Storage	-20~60°C, Max 90%
Max. Discharge Current 77°F(25°C)	1500A(5s)
Short Circuit Current	2680A
Charge Methods: Constant Voltage Charge 77°F(25°C)7	
Cycle use	14.4-14.8VPC
Maximum charging current	45A
Temperature compensation	-30mV/°C
Standby use	13.5-13.8VPC
Temperature compensation	-20mV/°C

Discharge Rates in Watts to Various End Voltage at 25°C(77°F)

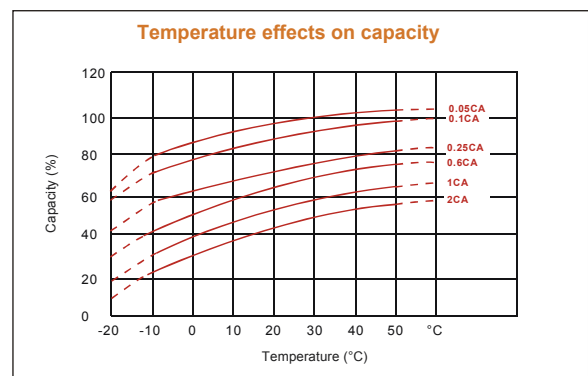
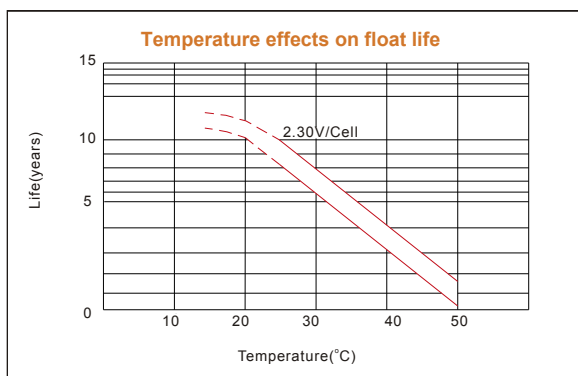
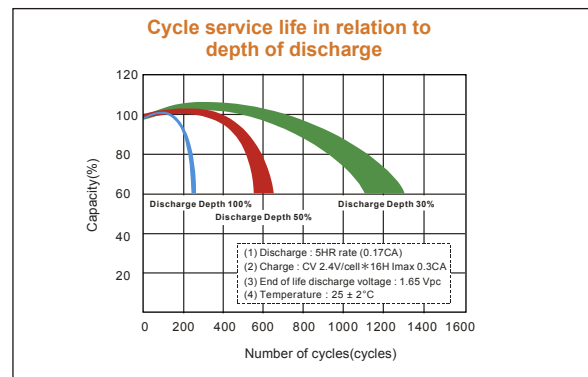
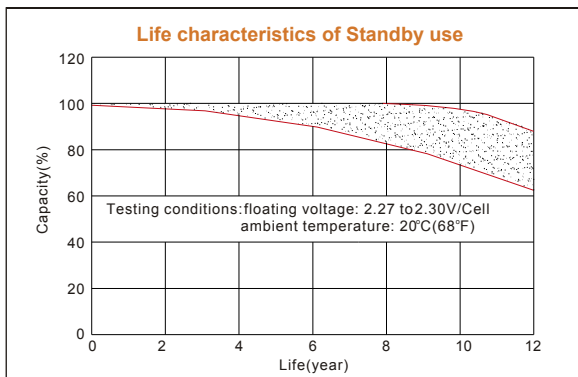
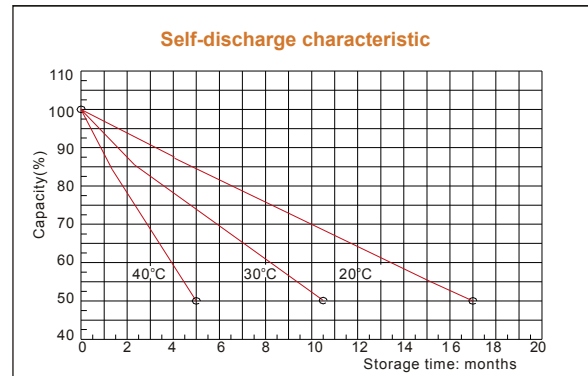
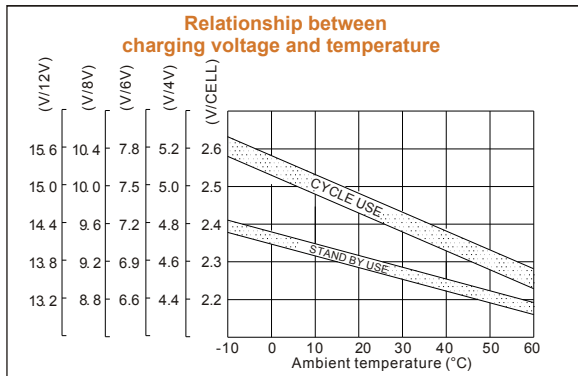
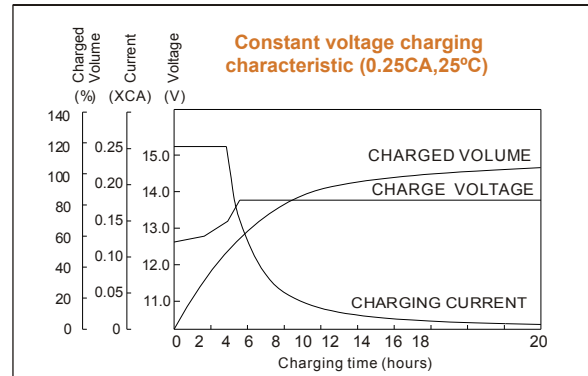
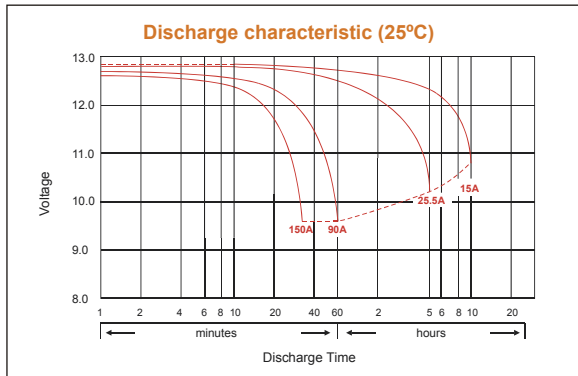
End Voltage	1.80V	1.75V	1.70V	1.65V	1.60V
10 min	450	505	525	557	567
15 min	405	456	489	509	520
30 min	241	272	291	303	310
60 min	175	182	186	188	189
180 min	73.8	76.5	78.5	80.0	80.8
300 min	51.3	53.2	54.3	55.2	55.7
600 min	31.2	31.8	32.3	32.7	32.8

Discharge Rates in Amperes to Various End Voltage at 25°C(77°F)

End Voltage	1.80V	1.75V	1.70V	1.65V	1.60V
10 min	250	282	302	334	349
15 min	234	261	280	291	298
30 min	132	148	159	165	169
60 min	89.9	92.7	94.8	96.4	97.5
180 min	37.2	39.1	40.5	41.6	42.3
300 min	25.6	26.6	27.4	27.9	28.1
600 min	15.0	15.2	15.4	15.8	16.0

(Note)The above characteristics data are average values.

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