



Your reliable battery solution

Shenzhen XYC Electronic Co.,Ltd.

XT445 4V4.5Ah(20hr)

Overview

The rechargeable batteries are lead-acid 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 oneway 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

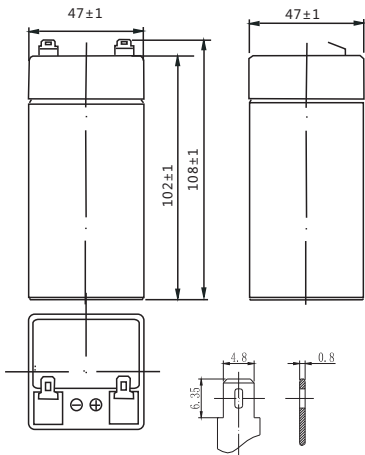
General Features

- 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)	47 / 1.85
Width(mm / inch)	47 / 1.85
Height(mm / inch)	102 / 4.02
Total Height(mm / inch)	108 / 4.25
Approx. Weight(Kg / lbs)	0.50/ 1.10

* Weight deviation: ±5%



Battery Specification

Performance Characteristics

Nominal Voltage	4V
Number of cell	2
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.225A, 3.5V)	4.5Ah
10 hour rate (0.42A, 3.5V)	4.2Ah
1 hour rate (3.2A, 3.2V)	2.93Ah
Internal Resistance	
Fully Charged battery 77 °F (25°C)	≤17 mOhms
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)	67.5A(5s)

Charge Methods: Constant Voltage Charge 77°F(25°C)

Cycle use	4.85-4.95V
Maximum charging current	1.35A
Temperature compensation	-30mV/°C
Standby use	4.50-4.60V
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F25°C)

F.V/TIME	5min	10min	15min	30min	2h	3h	5h	10h	20h
3.20V	17.1	10.8	8.55	4.77	1.60	1.15	0.78	0.42	0.228
3.30V	16.6	10.5	8.34	4.46	1.59	1.14	0.78	0.42	0.227
3.40V	15.9	10.0	8.04	4.53	1.58	1.13	0.77	0.42	0.226
3.50V	15.2	9.61	7.76	4.42	1.55	1.13	0.77	0.42	0.225
3.60V	14.4	9.07	7.35	4.26	1.51	1.09	0.74	0.41	0.221

Discharge Constant Power (Watts at 77°F25°C)

F.V/TIME	5min	10min	15min	30min	2h	3h	5h	10h	20h
3.20V	63.6	40.6	32.5	18.2	6.23	4.54	3.11	1.70	0.91
3.30V	61.7	39.4	31.7	17.9	6.20	4.52	3.09	1.69	0.91
3.40V	59.2	37.8	30.5	17.3	6.14	4.49	3.07	1.68	0.91
3.50V	56.6	36.1	29.5	16.9	6.05	4.46	3.04	1.67	0.90
3.60V	53.4	34.1	27.9	16.3	5.90	4.32	2.95	1.64	0.88

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.All data shall be changed without notice,XYC reserves the right to explain and update the information contained hereinto.

