VISION GROUP
Shenzhen Center Power Tech.Co.Ltd,.

CTA12-100X

12V 100Ah(10hr)

Overview

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 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

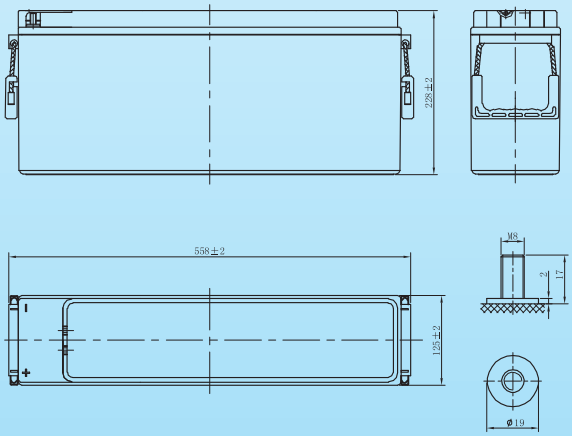
General Features

- 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)	558 / 22.0
Width(mm / inch)	125 / 4.92
Height(mm / inch)	228 / 8.98
Total Height(mm / inch)	228 / 8.98
Approx. Weight(Kg / lbs)	42 / 92.65

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12years
Nominal Capacity 68°F(20°C)	
10 hour rate (15.5A, 10.8V)	100Ah
5 hour rate (8.8A, 10.5V)	93.8Ah
1 hour rate (71.5A, 9.6V)	71.5Ah
Internal Resistance	
Fully Charged battery 68℉(20℃)	≤4.0mOhms
Self-Discharge	
3% of capacity declined per month at 20℃(average)	
Operating Temperature Range	
Discharge	-20~60℃
Charge	-10~60℃
Storage	-20~60℃
Max. Discharge Current 68°F(20°C)	1000A(5s)
Charge Methods: Constant Voltage Charge68°F(20°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30% of rated capacity
Temperature compensation	-30mV/℃
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/℃

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

End Point Volts/Cell	20min	25min	30min	45min	1.5h	3h	5h	10h
1.60V	171	146	126	91.2	50.4	29.3	20.1	10.6
1.65V	162	138	121	86.9	49.4	28.7	19.7	10.5
1.70V	154	132	116	84.0	48.3	28.0	19.2	10.3
1.75V	145	125	111	82.0	47.3	27.4	18.8	10.2
1.80V	138	120	108	80.0	46.4	26.9	18.3	10.0

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

End Point Volts/Cell	20min	25min	30min	45min	1.5h	2h	3h	5h
1.60V	296	252	223	166	94.0	74.1	55.0	38.3
1.65V	282	244	215	158	91.6	71.9	54.2	37.7
1.70V	266	231	205	154	90.2	70.8	53.4	36.8
1.75V	252	222	198	151	88.3	69.7	52.6	36.5
1.80V	237	207	188	147	86.5	68.5	51.7	35.9

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

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