

Overview

As professional battery manufacturer, Shenzhen Center Power Tech CO., Ltd successfully developed new HTB series after years of continuing research and development. The new HTB series can work at 35°C or long time, with double lifetime comparing with traditional SLA batteries.



Battery Construction

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

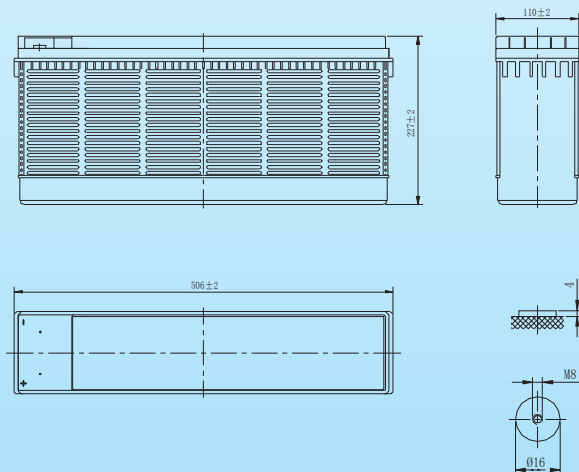
General Features

- Wide operating temperature range: -30°C to +80°C;
- Patented anti-corrosion grid technology;
- Special Battery separator technology;
- Special Containers & lids with thermostability;
- Special structure design with compression resistance and impact resistance;
- Save 50% cost of air conditioners' power consumption;
- 100% air conditioner maintenance saving;
- 30% CO₂ gas emission reduce;
- 100% condensing agent saving, no condensing agent pollution.

Dimensions and Weight

Length(mm / inch)	506 / 19.9
Width(mm / inch)	110 / 4.33
Height(mm / inch)	227 / 8.94
Total Height(mm / inch)	227 / 8.94
Approx. Weight(Kg / lbs)	32.5 / 71.6

Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life 95°F (35 °C)	10years
Nominal Capacity 77°F (25°C)	
10 hour rate (10.0A, 10.8V)	100Ah
5 hour rate (17.2A, 10.5V)	86Ah
1 hour rate (63.5A, 9.6V)	63.5Ah
Internal Resistance	
Fully Charged battery 77 °F (25°C)	≤6.3mOhms
Self-Discharge	
3% of capacity declined per month at 20°C (average)	
Operating Temperature Range	
Discharge	-30~80°C
Charge	-10~70°C
Storage	-30~80°C
Max. Discharge Current 77°F (25°C)	900A(5s)
Short Circuit Current	1700A
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30A
Temperature compensation	-5mV/Cell/°C
Standby use	2.27-2.30VPC
Temperature compensation	-3.3mV/Cell/°C

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

End Point	Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	218	176	110	78.8	63.5	27.8	18.5	10.1	
1.65V	201	165	106	76.4	61.5	27.1	18.1	10.1	
1.70V	185	154	102	73.9	59.5	26.4	17.8	10.0	
1.75V	169	143	97.0	71.6	57.5	25.7	17.2	10.0	
1.80V	153	132	93.0	68.0	55.1	24.6	16.8	10.0	

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

End Point	Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	380	319	206	150	121	70.1	52.3	36.5	
1.65V	358	303	199	144	117	68.1	51.2	36.1	
1.70V	337	286	195	140	115	66.4	50.1	35.8	
1.75V	316	270	182	134	110	63.1	49.1	35.5	
1.80V	294	254	170	128	103	62.3	47.8	34.6	

(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, Vision reserves the right to explain and update the information contained hereinto.

