

Overview

As professional battery manufacturer, Shenzhen Center Power Tech CO., Ltd successfully developed new HTB series after years of continued research and development. The new HTB series can work at 35°C for 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

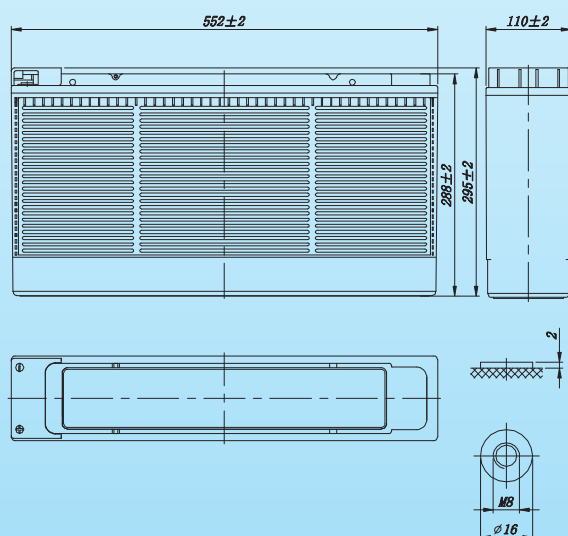
General Features

- 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)	552 / 21.7
Width(mm / inch)	110 / 4.33
Height(mm / inch)	288 / 11.3
Total Height(mm / inch)	295 / 11.6
Approx. Weight(Kg / lbs)	48.8 / 107.7

Weight deviation: $\pm 3\%$



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life 95°F (35°C)	10 years
Nominal Capacity 77°F (25°C)	
10 hour rate (15.0A, 10.8V)	150Ah
5 hour rate (28.4A, 10.5V)	142Ah
1 hour rate (111A, 9.6V)	111Ah
Internal Resistance	
Fully Charged battery 77°F (25°C)	$\leq 4.5\text{mOhms}$
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)	1050A(5s)
Short Circuit Current	2680A
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	2.40~2.45V/PC
Maximum charging current	45A
Temperature compensation	-30mV/°C
Standby use	2.27~2.30V/PC
Temperature compensation	-20mV/°C

Discharge Constant Current (Amperes at 77°F 25°C)

End Point	Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	310	270	178	137	111	47.1	30.2	15.4	
1.65V	285	252	171	133	109	46.2	29.6	15.3	
1.70V	260	233	164	129	106	45.3	29.0	15.2	
1.75V	235	214	157	125	103	44.4	28.4	15.1	
1.80V	210	195	149	120	99.9	43.4	27.8	15.0	

Discharge Constant Power (Watts at 77°F 25°C)

End Point	Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	498	432	298	230	190	88.1	57.6	29.6	
1.65V	479	420	292	227	188	87.2	57.1	29.4	
1.70V	460	407	286	223	186	86.3	56.5	29.2	
1.75V	440	394	280	219	184	85.3	55.9	29.0	
1.80V	420	381	273	215	181	84.3	55.3	28.8	

(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.

