

Overview

As professional battery manufacturer, Shenzhen Canter 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 couple 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.

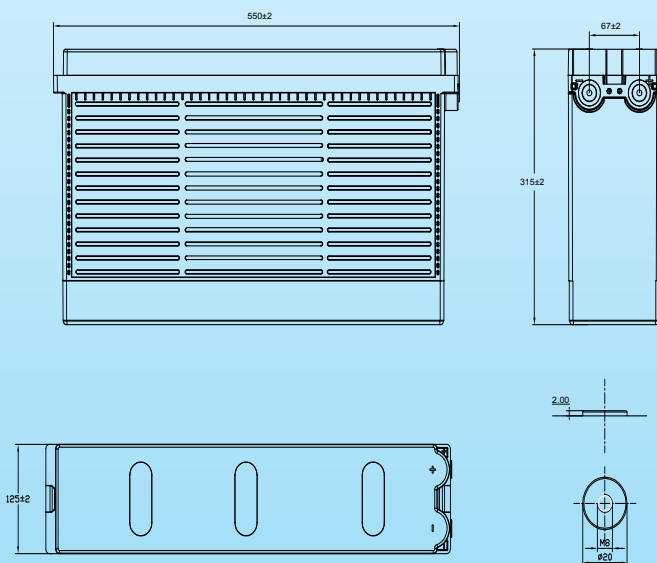
Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Number of cell	6
Design Life	12years
Nominal Capacity 77°F (25°C)	
10 hour rate (20.0A, 10.8V)	200Ah
5 hour rate (35.8A, 10.5V)	179Ah
1 hour rate (131A, 9.6V)	131Ah
Internal Resistance	
Fully Charged battery 68°F (20°C)	≤3.5 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)	1100A(5s)
Short Circuit Current	3000A
Charge Methods: Constant Voltage Charge 77°F (25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	60A
Temperature compensation	-30mV/°C
Standby use	2.20-2.30VPC
Temperature compensation	-20mV/°C

Dimensions and Weight

Length(mm / inch)	550 / 21.7
Width(mm / inch)	125 / 4.92
Height(mm / inch)	315 / 12.4
Total Height(mm / inch)	315 / 12.4
Approx. Weight(Kg / lbs)	60.5 / 133.38

* Weight deviation: ± 3%



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

End Point Volts/Cell	Time							
	15min	30min	45min	1h	1.5h	3h	5h	10h
1.60V	333	219	162	131	96.9	57.2	36.6	20.4
1.65V	308	213	159	127	94.0	56.7	36.3	20.3
1.70V	285	207	156	123	93.5	56.0	36.0	20.2
1.75V	261	202	154	120	91.2	56.3	35.8	20.1
1.80V	245	198	152	117	88.9	55.8	35.6	20.0

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

End Point Volts/Cell	Time							
	15min	30min	45min	1h	1.5h	3h	5h	10h
1.60V	641	428	312	255	186	114	73.0	40.9
1.65V	610	416	308	248	181	113	72.8	40.8
1.70V	595	404	304	241	177	112	72.6	40.7
1.75V	553	394	302	236	173	111	72.4	40.6
1.80V	520	386	300	231	170	110	72.0	40.5

(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.

