

HTB Series

High Temperature Battery

HTB-800



Main Applications

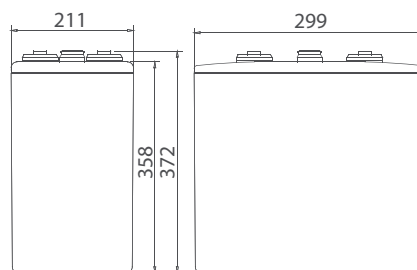
- High temperature environment (35°C)
- O°-grid & bad-grid environment
- Renewable energy (wind & solar) site
- Hybrid telecom site

Benefits

- Reduce operational cost (less cooling consumption)
- Excellent deep cycling performance
- Reduce CO₂ emission
- Secure operation under high temperature up to 55°C



Dimensions



Technical Parameters

Nominal Voltage	2 V
Capacity	800 Ah @10hr to 1.80V @ 25°C(77°F) 824 Ah @10hr to 1.80V @ 35°C(95°F)
Weight	55.8 kg (123.02 lbs)
Dimensions	Length: 299 mm (11.77 in) Width: 211 mm (8.31 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.25 mΩ
Short- circuit current	8800 A
Self Discharge @ 35°C(95°F)	Less than 7% after 90 days storage
Operating Temperature Range	Discharge: -40°C ~ 65°C(-40°F ~ 149°F) Charge: -20°C ~ 45°C(-4°F ~ 113°F) Storage: -20°C ~ 40°C(4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 35°C(59°F ~ 95°F)
Recommended Charging Current	120 A
Maximum Charging Current	200 A
Charging Voltage @35°C(95°F)	Float: 2.23 V/cell Equalize: 2.30 V/cell
Terminal	M8
Container Materials	High Temp ABS /High Temp ABS V0 (Optional)
Capacity A ^{ected} by Temperature(C ₁₀)	106%@ 40°C(104°F) 85%@ 0°C(32°F) 60%@ -20°C(-4°F)
Design life @35°C(95°F)	15 years

Certification

- ISO 9001
- ISO 14001
- GB/T 28001
- UL
- CE

Technical Features

- Operating temperature range -20°C to +65°C
- Best performance for continuous operation up to 35°C
- Extend service life under high temperature
- Excellent over discharge recovery capability
- Long life design for cyclic or floa application

HTB Series

High Temperature Battery

HTB-800



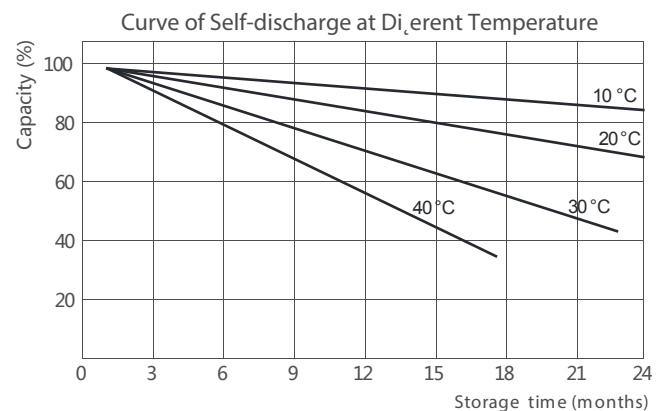
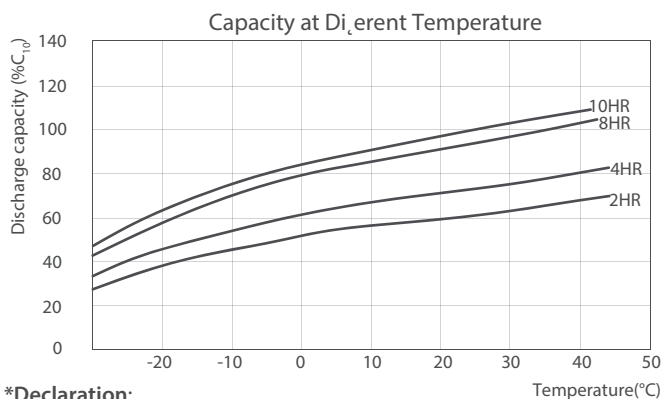
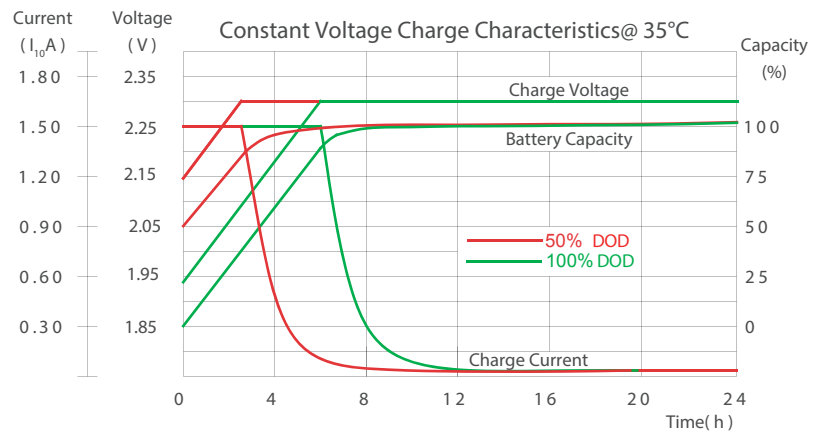
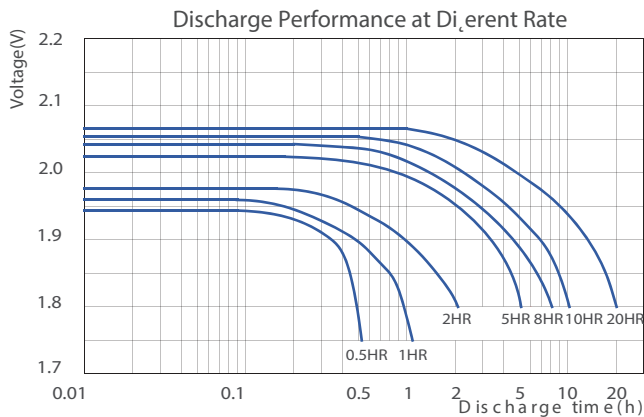
Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	120hr
1.70V	1021	730	467	220	154	104.6	86.4	73.4	47.0	39.9	20.1	13.8	8.7
1.75V	978	679	445	214	148	103.2	85.1	72.3	46.5	39.5	19.7	13.6	8.6
1.80V	863	635	429	207	145	101.0	83.8	71.2	45.7	38.8	19.4	13.4	8.4
1.83V	806	600	408	202	142	99.4	83.0	70.5	44.9	38.1	19.1	13.2	8.3
1.85V	748	564	388	196	138	97.8	82.2	69.8	44.1	37.4	18.8	12.9	8.1
1.90V	598	455	334	166	116	82.2	67.9	57.7	39.1	33.2	18.3	12.6	7.9

Constant Power Discharge Characteristics Unit: W/Cel (35°C, 95°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	120hr
1.70V	1722	1354	862	436	290	196.6	170.7	154.7	91.9	78.5	42.2	29.0	18.4
1.75V	1658	1308	832	418	280	191.5	168.0	152.0	90.9	77.2	41.4	28.5	18.1
1.80V	1587	1139	816	408	278	189.4	164.2	148.3	90.0	76.5	40.6	27.8	17.8
1.83V	1508	1099	807	398	275	187.4	161.8	147.1	87.7	74.5	39.9	27.4	17.4
1.85V	1430	1060	797	388	272	185.4	159.5	146.0	85.4	72.6	39.1	26.9	17.1
1.90V	1151	851	691	331	232	164.2	135.2	122.9	77.5	65.8	36.6	25.0	15.9

Performance Curve



*Declaration:

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information

Welcome to Visit: www.chinashoto.com