

HTB Series

High Temperature Battery

HTB-400



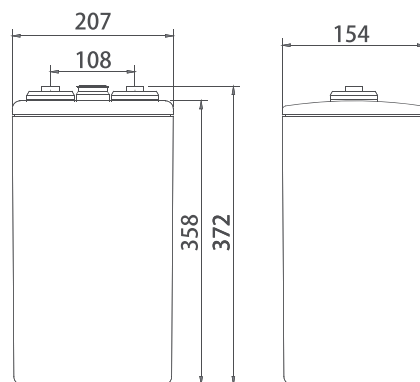
Main Applications

- 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	400 Ah @10hr to 1.80 V @ 25°C(77°F) 412 Ah @10hr to 1.80 V @ 35°C(95°F)
Weight	28.1 kg (61.95 lbs)
Dimensions	Length: 154 mm (6.06 in) Width: 207 mm (8.15 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.38 mΩ
Short- circuit current	7000 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	60 A
Maximum Charging Current	100 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

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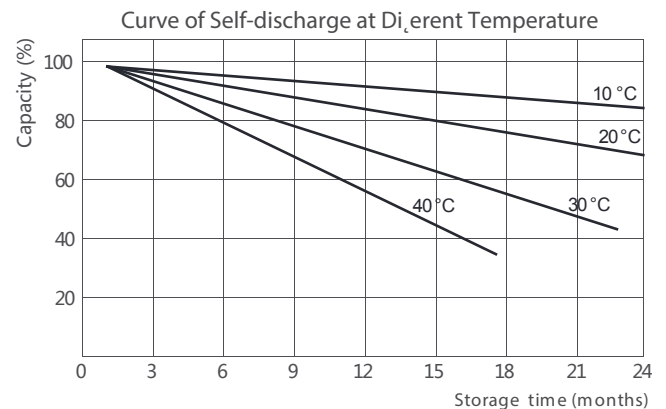
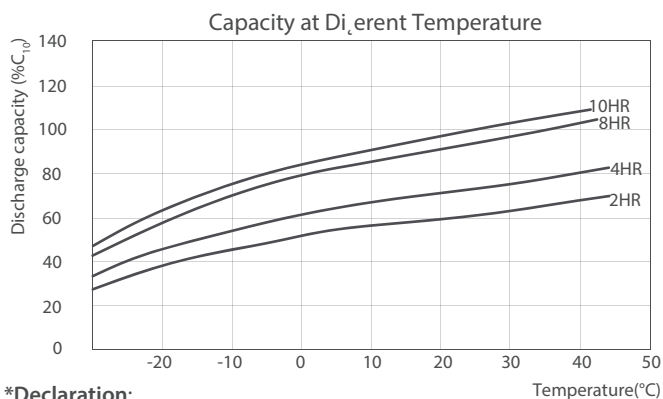
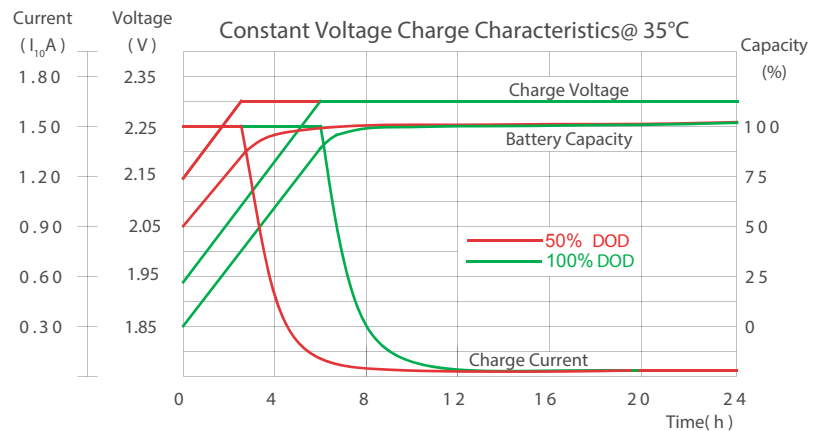
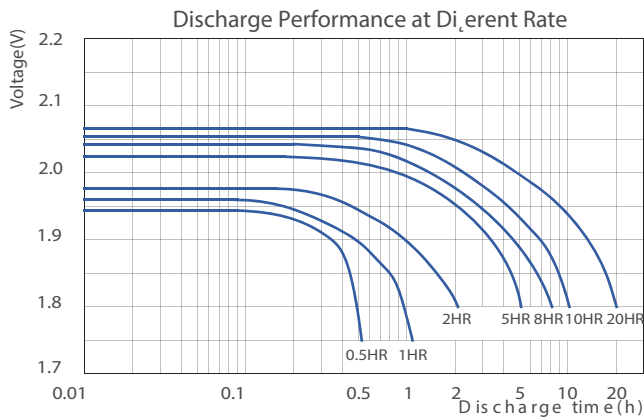
Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	120hr
1.70V	510	365	233	110	77	52.3	43.2	36.7	23.5	20.0	10.0	6.9	4.4
1.75V	489	339	223	107	74	51.6	42.5	36.2	23.2	19.7	9.9	6.8	4.3
1.80V	432	318	215	104	72	50.5	41.9	35.6	22.8	19.4	9.7	6.7	4.2
1.83V	403	300	204	101	71	49.7	41.5	35.3	22.4	19.1	9.6	6.6	4.1
1.85V	374	282	194	98	69	48.9	41.1	34.9	22.0	18.7	9.4	6.5	4.1
1.90V	299	228	167	83	58	41.1	33.9	28.8	19.5	16.6	9.2	6.3	4.0

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	861	677	431	218	145	98.3	85.4	77.3	45.9	39.2	21.1	14.5	9.2
1.75V	829	654	416	209	140	95.8	84.0	76.0	45.4	38.6	20.7	14.2	9.0
1.80V	794	569	408	204	139	94.7	82.1	74.1	45.0	38.3	20.3	13.9	8.9
1.83V	754	550	403	199	137	93.7	80.9	73.6	43.9	37.3	19.9	13.7	8.7
1.85V	715	530	399	194	136	92.7	79.8	73.0	42.7	36.3	19.6	13.5	8.5
1.90V	576	426	346	166	116	82.1	67.6	61.5	38.8	32.9	18.3	12.5	7.9

Performance Curve



*Declaration:

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