

HTB Series

High Temperature Battery

HTB-600



Main Applications

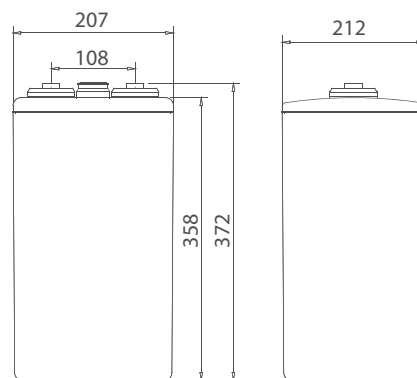
- High temperature environment (35°C)
- O°-grid & bad-grid environment
- Renewable energy (wind & solar) site
- Hybrid telecom site

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	600 Ah @10hr to 1.80 V @ 25°C(77°F) 618 Ah @10hr to 1.80 V @ 35°C(95°F)
Weight	40.3kg (88.85lbs)
Dimensions	Length: 212 mm (8.35 in) Width: 207 mm (8.15 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.29 mΩ
Short- circuit current	8300 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	90 A
Maximum Charging Current	150 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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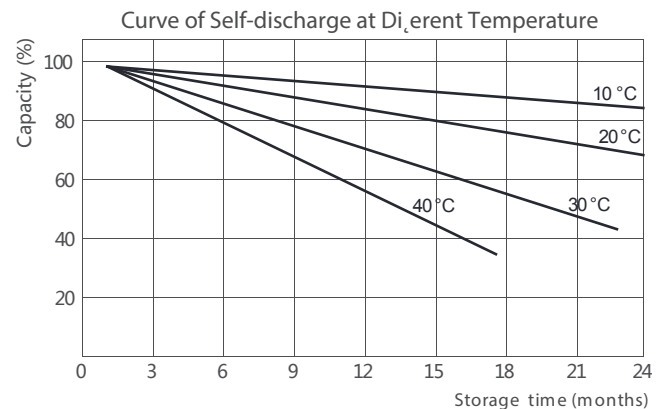
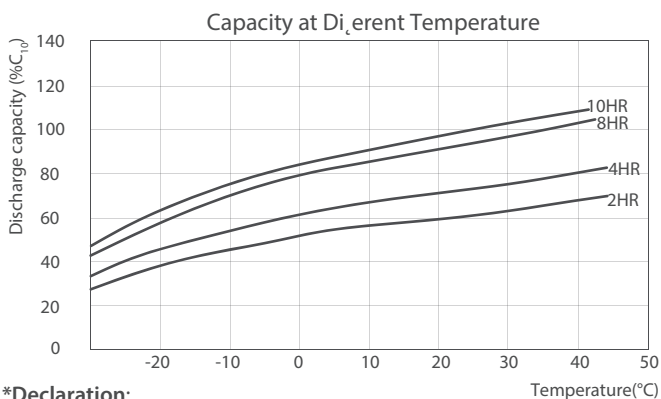
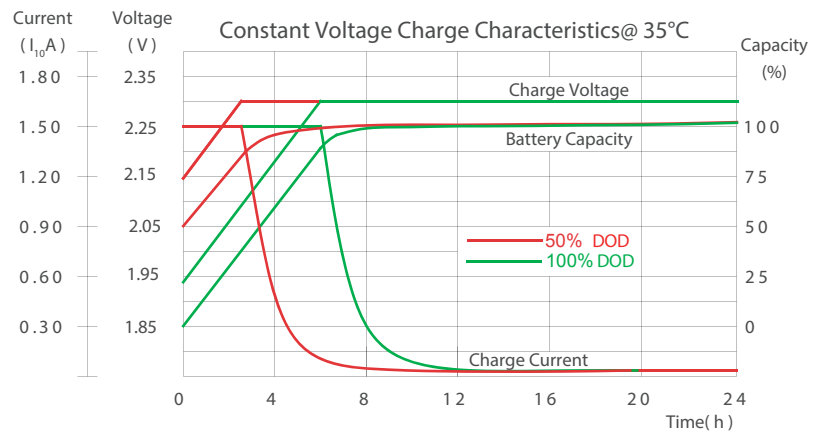
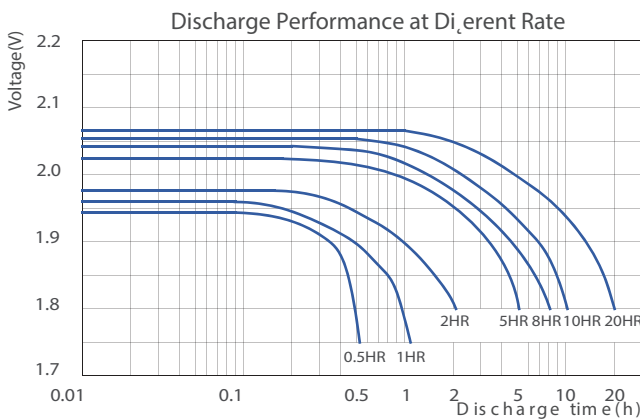
Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	120hr
1.70V	766	548	350	165	115	78.4	64.8	55.0	35.3	30.0	15.1	10.4	6.5
1.75V	733	509	334	160	111	77.4	63.8	54.2	34.9	29.6	14.8	10.2	6.4
1.80V	648	476	322	156	109	75.7	62.8	53.4	34.3	29.1	14.6	10.0	6.3
1.83V	604	450	306	151	106	74.5	62.2	52.9	33.6	28.6	14.3	9.8	6.2
1.85V	561	423	291	147	104	73.3	61.6	52.4	33.0	28.1	14.1	9.7	6.1
1.90V	449	341	251	124	87	61.6	50.9	43.3	29.3	24.9	13.7	9.5	5.9

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	1291	1016	647	327	218	147.4	128.0	116.0	68.9	58.9	31.6	21.8	13.8
1.75V	1243	981	624	314	210	143.6	126.0	114.0	68.1	57.9	31.0	21.4	13.6
1.80V	1190	854	612	306	209	142.1	123.1	111.2	67.5	57.4	30.5	20.8	13.3
1.83V	1131	824	605	299	206	140.6	121.4	110.4	65.8	55.9	29.9	20.5	13.1
1.85V	1072	795	598	291	204	139.1	119.6	109.5	64.0	54.4	29.3	20.2	12.8
1.90V	863	638	518	248	174	123.1	101.4	92.2	58.1	49.4	27.5	18.8	11.9

Performance Curve



*Declaration:

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