

# HTB Series

## High Temperature Battery

### HTB-300



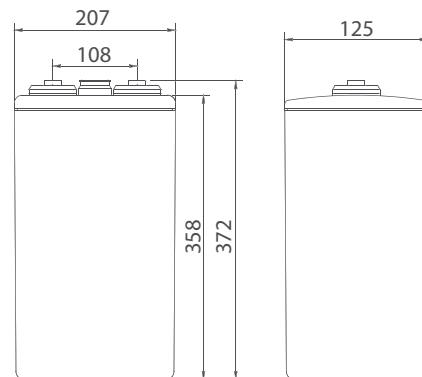
### Main Applications

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

### Benefits

- Reduce operational cost (less cooling consumption)
- Excellent deep cycling performance
- Reduce CO<sub>2</sub> emission
- Secure operation under high temperature up to 55°C

### Dimensions



### Technical Parameters

Nominal Voltage	2 V
Capacity	300 Ah @10hr to 1.80 V @ 25°C(77°F) 309 Ah @10hr to 1.80 V @ 35°C(95°F)
Weight	21.6 kg ( 47.62 lbs)
Dimensions	Length: 125 mm (4.92 in) Width: 207 mm (8.15 in) Height: 358 mm (14.09 in) Total height: 372 mm (14.65 in)
Internal Resistance (full charged)	0.42 mΩ
Short- circuit current	6400 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	45 A
Maximum Charging Current	75 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 Affected by Temperature(C <sub>10</sub> )	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 float application

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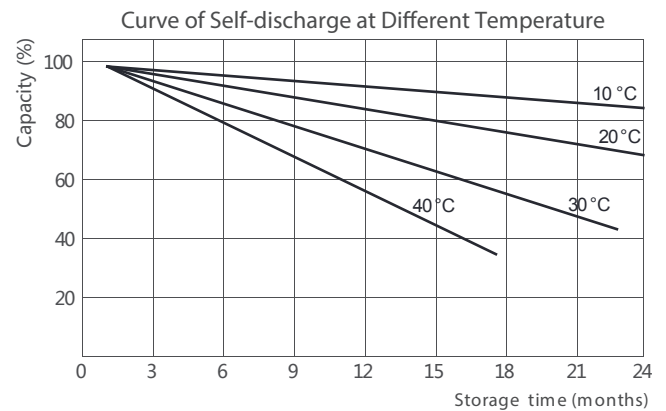
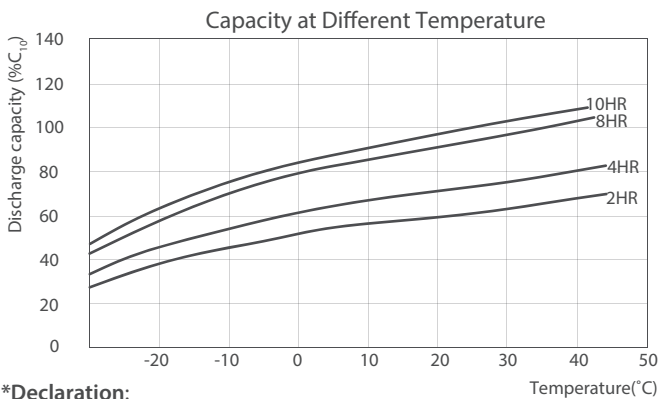
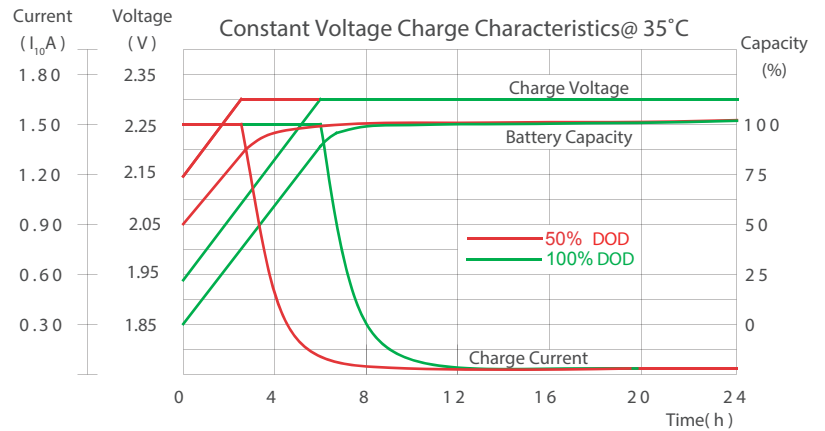
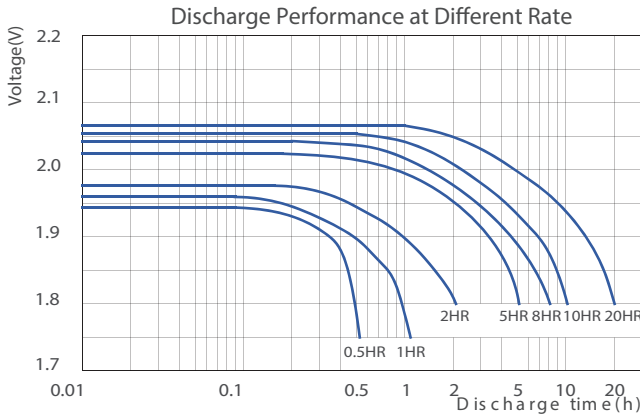
#### Constant Current Discharge Characteristics Unit: A (35°C, 95°F)

F.V/Time	15min	30min	1hr	3hr	5hr	8hr	10hr	12hr	20hr	24hr	48hr	72hr	120hr
1.70V	383	274	175	83	58	39.2	32.4	27.5	17.6	15.0	7.4	5.2	3.3
1.75V	367	254	167	80	55	38.7	31.9	27.1	17.4	14.8	7.4	5.1	3.2
1.80V	324	238	161	78	54	37.9	31.4	26.7	17.1	14.5	7.3	5.0	3.2
1.83V	302	225	153	76	53	37.3	31.1	26.4	16.8	14.3	7.2	4.9	3.1
1.85V	280	212	145	74	52	36.7	30.8	26.2	16.5	14.0	7.1	4.8	3.0
1.90V	224	171	125	62	43	30.8	25.4	21.6	14.7	12.4	6.8	4.7	3.0

#### 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	646	508	323	164	109	73.7	64.0	58.0	34.4	29.4	15.8	10.9	6.9
1.75V	622	491	312	157	105	71.8	63.0	57.0	34.1	29.0	15.5	10.7	6.7
1.80V	595	427	306	153	104	71.0	61.6	55.6	33.8	28.0	15.2	10.4	6.6
1.83V	566	412	302	149	103	70.3	60.7	55.2	32.9	27.9	14.9	10.3	6.5
1.85V	536	398	299	146	102	69.5	59.8	54.7	32.0	27.2	14.7	10.1	6.4
1.90V	432	319	259	124	87	61.6	50.7	46.1	29.1	24.7	13.7	9.4	6.0

#### Performance Curve



#### \*Declaration:

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