

High-Temp Long Life Deep Cycle GEL Battery

Brief Introduction

Newest in 2016, CSBattery high temperature long life gel battery, best choice to work in Hot/Cold temperature sites and long life over 15years. Considering the challenge that when normal battery work in hot or cold environment the battery will be derate, we developed a new range type of battery adapted for these environments.

We are proud to introduce High/Cold Temperature Long Life Deep Cycle GEL Battery-HTB series. Using thick plate design with special additives (super-C). This newly developed battery can work even high temperature up to 60°C or down to -20°C without the use of any air-conditioner.



Complied Standards

IEC60896-21/22	BS6290part4
JISC8704	GB/T19638
IEC61427	CE/ISO

Technical Specifications

Nominal Voltage	12V/6V	
Design Floating Life @25°C	20 Years	
Nominal Capacity @25°C(20 hour rate@1.8V)	100%C (Ah)	
	10hour rate (1.8V)	90%C (Ah)
	5 hour rate (1.8V)	80%C(Ah)
	1 hour rate (1.75V)	58%C(Ah)
Capacity @25°C		
Internal Resistance	Full Charged Battery@25°C	≤0.02*C(mΩ)
	Discharge	-25°C~60°C
Ambient Temperature	Charge	-25°C~60°C
	Storage	-25°C~45°C
Max.Discharge Current@25°C	6C (5s)	
	40°C	108%
Capacity affected by Temperature (10 hour)	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°Cper Month	3%	
	Standby Use	Initial Charging Current Less than C*0.25A Voltage 2.25-2.3V
Charge (Constant Voltage) @25°C	Cycle Use	Initial Charging Current Less than C*0.25A Voltage 2.37-2.4V

Applications

Solar Energy System, Off-Grid Solar System

BTS Stations

Wind Energy System, Pump, Inverter

UPS System, EPS System, Marine

Wheel chair, Golf Car, Sweeper

Telecom System, BT Tower

Power Tools, Control System

Electric Powered Vehicles

General features

Able to operate at -40~60°C

DOD 50% 1500 times Cycles

Integrated design to ensure the best uniformity and reliability

Long life and high stability under hightemp. environment (no cooling needed)

Use super-C additives:
Deep discharge recovery capability

Battery Construction

Component	Positive plate	Negative plate	Container &Cover	Safety valve
Features	Thick high Sn low Ca grid with Special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert T/AP/DP	Advanced PVC/AGM separator for high pressure cell design	German Evonik Silicon GEL	Two layers epoxy resin seal

HTB12 12V Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
HTB12-14	12	14	152	99	96	102	3.8	3.9	F1/F2
HTB12-20	12	20	181	77	167	167	6	6.1	T1/L1
HTB12-24	12	24	166	175	126	126	8.3	8.4	M6
HTB12-26	12	26	165	126	174	179	8.4	8.5	M6
HTB12-35	12	35	196	130	155	167	10.5	10.7	M6
HTB12-40	12	40	198	166	174	174	14.2	14.4	M6
HTB12-55	12	55	229	138	208	212	16	16.5	M6
HTB12-70	12	70	350	167	178	178	23.3	23.8	M6
HTB12-75	12	75	260	169	208	227	25	25.5	M6
HTB12-85	12	85	260	169	208	227	26.1	26.6	M6
HTB12-90	12	90	307	169	211	216	28.2	28.7	M6
HTB12-100	12	100	307	169	211	216	30.2	30.7	M6
HTB12-110	12	110	328	172	218	222	33.5	34	M8
HTB12-120	12	120	407	173	210	233	39.2	39.7	M8
HTB12-135	12	135	344	172	280	285	40.8	41.3	M8
HTB12-150	12	150	484	171	241	241	45.5	46	M8
HTB12-180	12	180	532	206	216	222	56	56.5	M8
HTB12-200	12	200	532	206	216	222	58.6	59.1	M8
HTB12-230	12	230	522	240	219	225	65	65.5	M8
HTB12-250	12	250	520	269	203	207	71	71.5	M8
HTB12-300	12	300	520	269	220	226	77	77.5	M8



HTB6 6V Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
HTB6-200	6	200	306	168	220	222	30	30.1	M8
HTB6-210	6	210	260	180	247	249	29.5	29.6	M8
HTB6-220	6	220	306	168	220	222	31.5	31.6	M8
HTB6-225	6	225	243	187	275	275	30.5	30.6	M8
HTB6-250	6	250	260	180	265	272	34.5	34.6	M8
HTB6-310	6	310	295	178	346	366	46	46.2	M8
HTB6-330	6	330	295	178	354	360	46.6	46.8	M8
HTB6-380	6	380	295	178	404	410	55.3	55.8	M8
HTB6-420	6	420	295	178	404	410	56.8	57.3	M8
HTB8-170	8	170	260	182	266	271	34.3	34.8	M8
HTB8-200	8	170	260	182	295	300	38.3	38.8	M8



Performance Characteristics

