





High Voltage Battery Datasheet

HB-10S-G2

HB-15S-G2

HB-19S-G2

HB-23S-G2

Description

The HB-(10-23)S-G2 series is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience.

It is designed with an IP65 rating for more flexible and easier installation

It has superior performance with a capacity ranging from 11.52

kWh

to 23.04 kWh for a single tower, which can meet residential demand.

Features

01 LFP with improved safety design

02 Suitable for indoor/outdoor installation with IP65 design

03 Quick connector design saves installation time

O4 Stackable design without wiring

05 Flexible capacity options from 11.52 kWh to 23.04 kWh

06 Module level fire protection

Technical Specifications

Model	HB-10S-G2	HB-15S-G2	HB-19S-G2	HB-23S-G2
System Data				
Battery type Rated capacity (Ah) Number of	LiFePO4			
modules Total energy (kWh) Rated voltage (V)	50			
Voltage range (V) Rated charging/discharging	3	4	5	6
current Max. continuous charging/discharging	11.52	15.36	19.2	23.04
current (A) Max. charge/discharge power (kW)	230.4	307.2	384	460.8
Peak charge/discharge power (kW)	201.6-259.2	268.8-345.6	336-432	403.2-518.4
Communication Recommended depth of		0.	.5C	
discharge (DOD)	30			
	5.76	7.68	9.6	11.52
	11.52 (5s)	15.36 (5s)	19.2 (5s)	23.04 (5s)
	CAN, RS485			
	90%			
Protection				
		Inte	grate	
Overvoltage and undervoltage protection			grate	
Overvoltage and undervoltage protection Overcurrent protection	n	d		
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection	n	d	grate	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker	n	d Inteç	grate	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General		d Integ d Integ	grate	635 × 1000 × 235
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm])	635 × 565 × 335	d Integ d Integ 635 × 710 × 335 Integ	grate grate 635 × 855 × 335	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg)		d Integ d Integ 635 × 710 × 33 d Integ 172 d	grate grate 635 × 855 × 335 grate 212	635 × 1000 × 335 252
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment	635 × 565 × 335	d Integ d Integ 635 × 710 × 33 Integ 172 d Indoor	grate grate 635 × 855 × 335 grate 212 /Outdoor	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C)	635 × 565 × 335	d Integ d Integ 635 × 710 × 33 Integ 172 d Indoor	grate grate 635 × 855 × 335 grate 212 /Outdoor 0 +50	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C) Discharging temperature (°C)	635 × 565 × 335	d Integ d Integ 635 × 710 × 33 172 d Indoor 0 to -10 to	grate 635 × 855 × 335 grate 212 /Outdoor 0 +50 to +50	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C) Discharging temperature (°C)	635 × 565 × 335	d Integ d Integ 635 × 710 × 33 172 Integ d Indoor. 0 to	grate 635 × 855 × 335 grate 212 /Outdoor 0 +50 to +50 P65	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C) Discharging temperature (°C) Protection degree Cooling	635 × 565 × 335	d Integ d Integ 635 × 710 × 33 172 Integ d Indoor. 0 to -10 to Natural of	grate 635 × 855 × 335 grate 212 /Outdoor 0+50 to +50 P65 convection	
Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C) Discharging temperature (°C) Protection degree Cooling Altitude (m)	635 × 565 × 335	d Integ d Integ d Integ 635 × 710 × 335 172 Integ d Indoor, 0 to -10 to Natural o	grate grate 635 × 855 × 335 grate 212 /Outdoor 0 +50 to +50 P65 convection	
Protection Overvoltage and undervoltage protection Overcurrent protection Overtemperature and undertemperature protection DC breaker General Dimensions (W × H × D [mm]) Weight (kg) Installation environment Charging temperature (°C) Discharging temperature (°C) Protection degree Cooling Altitude (m) Cycle life (25°C, 0.5C) Certification	635 × 565 × 335	d Integ d Integ d Integ 635 × 710 × 33 172 Integ 172 Integ 170 to -10 to Natural 6 ≤2 6000 Cycles, @90	grate 635 × 855 × 335 grate 212 /Outdoor 0+50 to +50 P65 convection	635 × 1000 × 335 252

 $[\]hbox{*Parallel connection between battery towers is not supported.}$



