



HOPETREK

# HB2 Series High-Voltage Battery

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ESS-HB10/12  
ESS-HB15/18/20



## Key Features

- **Safety & Reliable**

LFP batteries and automotive-grade BMS, high safety & performance  
Fault diagnosis and protection functions, accurate location of fault points

- **High Performance**

Suitable for extreme temperatures and solid & complex electromagnetic environments  
IP65 protection design for both indoor and outdoor use

- **Flexible Applications**

Modular design, adaptive control strategy  
Automatic identification of matching PCS models

- **Easy Installation**






One-piece quick-connect fittings to minimize field wiring  
Lightweight and supports a variety of installation methods

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# Specifications

Model	ESS-HB10	ESS-HB12	ESS-HB15	ESS-HB18	ESS-HB20
System Demo					
Cell Type	LFP (LiFePO4)				
Total Energy(kWh)	10.24	12.80	15.36	17.92	20.48
Usable Energy(kWh)	9.22	11.52	13.82	16.13	18.43
Nominal Voltage	204.8	256	307.2	358.4	409.6
Operating Voltage (V)	179.2~230.4	224~288	268.8~345.6	313.6~403.2	358.4~460.8
Depth of Discharge (DOD)	90%				
Max. Charge/Discharge Current	25/50A				
Rated Power(KW)	10	12.5	15	17.5	20
Installation	Floor				
Operating Temperature (Charging)	0°C~55°C				
Operating Temperature (Discharging)	-20°C~55°C				
Relative Humidity	5%~95%				
Communication	CAN				
Cooling	Natural Convection				
Ingress Protection Rating	IP65				
Dimensions (W*H*Dmm)	580*1385*180	580*1650*180	580*1385*180 580*730*180	580*1385*180 580*995*180	580*1385*180 580*1260*180
Weight(kg)	135	165	195	225	255
Authentication Level	IEC62619/IEC62477/IEC61000/UN38.3 etc.				

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