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POWER BANK 20KWH (B20K)

The PB20K is a 20KWh energy storage system that safely

Applications

- Solar power backup

Our PB20K Energy Storage System is built robust using galvanized steel panels to protect against corrosion. The four castor wheels can be removed to install directly to a flat surface.

Battery Technology

The PB20K incorporates four banks of sixteen Lithium Iron Phosphate (LiFePO4) batteries, providing efficient storage, high energy output and long life.

Battery Management System (BMS)

Our PB20K integrates BMS controllers to efficientlymanage the charging/discharging and health of the internal batteries. They can be connected to an external Inverter for monitoring purposes and data read out. WIFI

Parallel / series Connections

The PB20K battery does not support series connections however, up to four units can be connected in parallel providing up to 80KWh of stored energy.

Warranty

EVB360 warranties our B20K for 10 years. The internal LiFePO4 batteries can be cycled (charged/discharged) 10000 times providing a lifetime of 15 years under normal use, when cycled daily.

APPLIANCE	HOURLY CONSUMPTION (KWH)	HOURS OF USE	DAYS OF USE
Fridge	0.13	153	6
Oven	2.3	8	0.3
Freezer	0.07	285	11
TV	0.18	111	4
Laptop	0.05	400	16

Mini-grid systems			
ELECTRICAL SPECIFICATIONS			
Nominal Voltage (V) :	51.2		
Nominal Capacity (Ah) :	400		
Operational Voltage Range (VDC) :	42-58.4		
Internal resistance (m Ω)	≤32 @ 50% SOC		
Peak Current (A)	450A @2s		
Efficiency	>95%		
Self Discharge	<3% Per Month		
Short Circuit Protection (µs)	200-600		
Battery capacity (kWh)	20.48		
CHARGING SPECIFICATIONS			
Maximum Charge Current (A)	200		
Charge Target Voltage (V)	56 ~ 58.1		
Maximum Charge Voltage (V)	58.4		
High Voltage Cutoff (V)	58.8		
DISCHARGING SPECIFICATIONS			
Maximum Discharge current (A)	200		
Discharge Target Voltage (V)	43~45		
Minimum Discharge Voltage	42		
Low Voltage Cutoff (V)	40		
MECHANICAL SPECIFICATIONS			
Dimensions: (width x depth x height)	900 x 400 x 1200 (mm)		
Weight (Kg)	252		
Case Material:	Galvanized steel		
Cell Type Chemistry	LiFePO4		
WORKING ENVIRONNENT			
Charge Recommended Temperature (°C)	0 ~ 45		
Discharge Recommended Temperature(°C)	-10 ~ 35		
Working Temperature (°C)	0 ~ 45		
Storage Temperature (°C)	-10 ~ 55		
Self-heating Temperature Rating	15-20°C / Hour		

Note 1. CAUTION, do not exceed maximum charging voltage.