



Integrated Outdoor Battery Energy Storage Cabinet

- Plug-and-play, all-in-one design
- Support solar, generator, wind turbine accessing
- Up to 100% unbalanced loads operation
- Multi grid auxiliary service application
- Five-layer safety design
- Higher availability with modular design & O&M cloud platform



Integrated Outdoor Battery Energy Storage Cabinet

Model	PowerHill P30-143kWh	PowerHill P30-179kWh	PowerHill P50-215kWh	PowerHill P60-143kWh	PowerHill P60-161kWh	PowerHill P60-179kWh	PowerHill P60-215kWh	PowerHill P100-215kWh
Battery								
Cell Type	LiFePO4-280Ah							
Pack Configuration	1P20S							
Cycle Life	8000 Cycles @70% EOL							
Battery Capacity [kWh]	143.36	179.2	215.04	143.36	161.2	179.2	215.04	215.04
AC Output								
Connection Type	3P4W							
Charging / Discharging Power [kW]	30		50	60			100	
Rated Grid Voltage [V]	220 / 380; 230 / 400							
Frequency [Hz]	50 / 60							
Rated AC Output Current [A]	43		72	86			144	
Adjustable Power Factor Range	0.8 Leading ... 0.8 Lagging							
Output THDi [@Rated Output]	≤ 3%							
Backup Output (Off-Grid)								
Connection Type	3P4W							
Rated Output Power [kW]	30		50	60			100	
Rated Output Voltage [V]	220 / 380; 230 / 400							
Output Frequency [Hz]	50 / 60							
Rated Current [A]	43		72	86			144	
Frequency Accuracy [Hz]	0.2							
General Parameters								
Dimensions [W * H * D] [mm]	1686 * 2093 * 1354							
Weight [kg]	2500							
Display	HMI							
Degree of Protection	IP55 (Battery Cabinet), IP54 (Electrical Cabinet)							
Cooling	Battery Cabinet (Air Conditioner)							
Fire Suppression System	Combustible Gas Detection + Novec1230 + Water Fire Protection							
Anti-Corrosion Grade	C3							
Relative Humidity	0 ~ 95% (Non – Condensing)							
Operating Temperature [°C] ^[1]	-30 ~ 50							
Altitude [m] ^[2]	< 2000							
Noise Level [dB(A)]	≤ 75							
Communication Interface	RS485, Ethernet							
Communication Protocol	Modbus RTU, Modbus TCP / IP							
PV Side Parameters (Optional)								
Max. PV Input Power [kW]	30		60			60 / 120		
Max. PV Input Voltage Range [V]	200 ~ 750		200 ~ 650	200 ~ 750			200 ~ 650	
Number of MPPTs	1		1			1 / 2		
Number of PV Inputs	1		1			1 / 2		
Max. Input Current [A]	100		200			200 / 400		
Certifications & Standards								
System	CE (IEC 61000, IEC 62477), IEC 62109, IEC 62619, UN 3480, CEI 0-21, CEI 0-16, VDE 2510							
Converter	G99, G100, VDE 4105, EN50549, CE (IEC 61000, IEC 62477), IEC 62109, NC RfG, VDE 4110							
PACK	UN 38.3							
Cell	IEC 62619, UL 1973, UL 1642, UL 9540A							

[1] The system will be derated when the ambient temperature exceeds 45°C.

[2] The system will be derated when the altitude is above 2000m.