



# POWERHILL (143kWh–215kWh)

## 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
- 5 layers 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							
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 Gird)								
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 <sup>[1]</sup> [°C]	-20 ~ 50							
Altitude <sup>[2]</sup> [m]	< 2000							
Noise Level [dB]	≤ 75							
Communication Interface	RS485, Ethernet							
Communication Protocol	Modbus RTU, Modbus TCP / IP							
PV Side Parameters (Optional)								
Max. PV Input Power [kW]	30 / 60		60 / 90	30 / 60 / 90 / 120				
Max. PV Input Voltage Range [V]				200 ~ 750			200 ~ 650	
Number of MPPTs	1 / 1		1 / 1	1 / 1 / 2 / 2				
Number of PV Inputs	1 / 1		1 / 1	1 / 1 / 2 / 2				
Max. Input Current [A]	100 / 200		100 / 200	100 / 200 / 300 / 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, 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.