



# POWERHILL (143kWh–215kWh)

## Integrated Outdoor Battery Energy Storage Cabinet

Model	PowerHill P30-143kWh	PowerHill P30-179kWh	PowerHill P60-143kWh	PowerHill P60-161kWh	PowerHill P60-179kWh	PowerHill P60-215kWh	PowerHill P100-215kWh
<b>Battery</b>							
Cell Type	LiFePO4-280Ah						
Pack Configuration	1P20S						
Battery Capacity [kWh]	143.36	179.2	143.36	161.2	179.2	215.04	215.04
<b>AC Output</b>							
Connection Type	3P4W						
Charging / Discharging Power [kW]	30					100	
Rated Grid Voltage [V]	220 / 380; 230 / 400						
Frequency [Hz]	50 / 60						
Rated AC Output Current [A]	43					144	
Adjustable Power Factor Range	0.8 Leading ... 0.8 Lagging						
Output THDi [@Rated Output]	≤ 3%						
<b>Backup Output (Off Grid)</b>							
Connection Type	3P4W						
Rated Output Power [kW]	30					100	
Rated Output Voltage [V]	220 / 380; 230 / 400						
Output Frequency [Hz]	50 / 60						
Rated Current [A]	43					144	
Frequency Accuracy [Hz]	0.2						
<b>General Parameters</b>							
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						
<b>PV Side Parameters (Optional)</b>							
Max. PV Input Power [kW]	30 / 60					30 / 60 / 90 / 120	
Max. PV Input Voltage Range [V]						200 ~ 750 / 200 ~ 650	
Number of MPPTs	1 / 1					1 / 1 / 2 / 2	
Number of PV Inputs	1 / 1					1 / 1 / 2 / 2	
Max. Input Current [A]	100 / 200					100 / 200 / 300 / 400	
<b>Certifications &amp; Standards</b>							
System	CE (IEC 61000, IEC 62477), IEC 62109, IEC 62619, UN 3480, CEI0-21, CEI0-16, VDE 2510						
Converter	G99, VDE 4105, EN50549, CE (IEC61000, IEC62477), IEC62109, NC RfG, VDE4110						
PACK	UN38.3						
Cell	IEC62619, UL1973, UL1642, UL9540A						

[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.

## 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