



# POWERHILL (143kWh–215kWh)



## 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	
<b>Battery</b>									
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	
<b>AC Output</b>									
3P4W									
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%								
<b>Backup Output (Off Grid)</b>									
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								
<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 [1] [°C]	-30 ~ 50								
Altitude [2] [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						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	
<b>Certifications &amp; Standards</b>									
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.

## 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