

# Powermate A3.68/A4.6/A5/A6

## Single-phase Residential ESS



With the CYG cloud platform and mobile APP, you can monitor and manage your energy usage more effectively.

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Battery selection from 5.12kWh to 40.96kWh (up to 8 batteries).

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Modular-based design for easy installation, Plug-and-play.

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All-in-one design to minimize the exposed electrical risks.

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Model	PowermateP3.68/60	PowermateP4.6/120	PowermateP5/120	PowermateP6/120
<b>Input (PV)</b>				
Max PV Power	4500W		9000W	
Max PV Voltage	550V			
Max Input Current (PerMPPT)	15A			
Start Operating Voltage	90V			
MPPT Voltage Range	70V-520V			
<b>Input (BAT)</b>				
Compatible Battery Type	Lithium-ion			
Nominal Battery Voltage	48V			
Max.Charge/Discharge Current	60A/60A	120A/120A		
Max.Charge/Discharge Power	3000W/3000W	5000W/5000W	5000W/5000W	6000W/6000W
<b>Output (Grid)</b>				
Nominal AC Output Power	3680W	4600W	5000W	6000W
Max.AC Output Current	18A	22A	25A	27.2A
Rated AC Voltage	230V			
Grid Connection	Single-Phase			
<b>Output (Backup)</b>				
Nominal Output Voltage	230V			
Nominal Output Power	3000W	4600W	5000W	6000W
Nominal Output Current	13A	20A	21.7A	26A
<b>General</b>				
Protection Grade	IP65			
Operating Temperature Range[°C]	-25~+60			
Cooling Method	Natural Cooling			
Mounting	Wall Bracket			
Dimensions (W*H*D)	515mm*485mm*175mm			
Weight	20Kg	25Kg	25Kg	25Kg
<b>HMI&amp;COM</b>				
Communication Interface	RS485/CAN(forBMS),RS485,USB,DRM/RS485(forMeter),Bluetooth,Optional:WiFi/GPRS/LAN			
<b>Certification</b>				
Safety	IEC 62109-1&2, IEC 62040-1, IEC 62477-1, IEC62619, IEC 61000-6-1&4, IEC 61727, IEC 62116, EN50549-1;			
Grid	VDE-AR-N4105, AS 4777.2, EN 50549-1, G98/99/100, CEI 0-21, NRS 097-2-1			
<b>Model PowermatePack5.1</b>				
Cell Technology	Li-ion(LFP)			
Nominal Voltage	51.2V			
Operating Voltage Range	43.2-58.4V			
Capacity	5.12kWh/100Ah			
Depth of Discharge	Cycle Life 6,000 Cycles [90% DOD 25°C]			
Max.Charge/Discharge Power	5.12kW			
Max.Charge/Discharge Current	100A/100A			
Available Charge/ Discharge Temperature Range	-10~+55°C			
Protection Grade	IP54			
Dimensions (W*H*D)	515*400*205mm			
Weight	58kg			
Certification	UN38.3.MSDS.UL1973.IEC62619			