

PM modular series

PMA inverter module

50-60kW



KEY STRENGTHS

USER FRIENDLY DESIGN

- DC port and AC port support hot plug quick connect.
- Support single-person installation.
- Human-computer interaction support 10.1" touch screen/local web/upper computer.

SAFE&RELIABLE

- Independent air duct fan cooling.
- Well established industrial IGBT power modules.
- Integrated ground-fault monitoring and residual current monitoring and AC relay automatic checking.

ABUNDANT CONFIGURATION

- Off-grid supports unbalanced and half-wave loads on both.
- On-grid supports split-phase power control.
- Support for small-power diesel generator grid connection.
- Supports remote upgrade, integrated local fault recorders.

APPLICATIONS



Peak load shifting



Demand side management



Emergency power supply



Dynamic expansion

Model	PMA0050	PMA0060
Parameters for DC side		
Max. DC continuous power (kW)	55	69
Operating DC voltage range (V)	590~950Vdc(3W+PE)/650~950Vdc(3W+N+PE)	
Full load DC voltage range (V)	600~900Vdc(3W+PE)/680~900Vdc(3W+N+PE)	
Max. DC current (A)	±100	±125
Max.DC continuous current	±92	±115
Stabilized voltage precision	±1%	
Stabilized current precision	±2% (Of rated power)	
Parameters for AC side(on-grid)		
Rated active power (kW)	50	62.5
Max. apparent power (kVA)	60	75
Max. continuous apparent power (kVA)	55	69
Grid type	3W+PE or 3W+N+PE	
Rated AC voltage (V)	400/230	
Rated AC current (A)	72	90
Max. AC current (A)	86	110
Max. AC continuous current (A)	79	99
THDi	< 3% (Of rated power)	
Grid voltage range (V)	400±15% (According to load standards)	
Grid frequency range (Hz)	50±5 / 60±5 (According to load standards)	
Adjustable power factor range	>0.99; -1~ +1	
Parameters for AC side(off-grid)		
Rated output active power (kW)	50	62.5
Max. output apparent power (kVA)	60	75
Max. output continuous apparent power (kVA)	55	69
Max. AC current (A)	86	110
Max. AC continuous current (A)	79	99
Rated outout voltage (V)	L-N:220/230/240; L-L:380/400/415	
Rated frequency (Hz)	50/60	
Voltage accuracy	±1%	
Output frequency precision (Hz)	50/60 ± 0.2%	
THDu	<3% (Of linear load)	
Voltage DC component	<0.5%Un (Of linear load)	
Voltage unbalance	±1%; 120 ±1° (Of linear load)	
Load unbalance	100% Three-phase unbalanced	
Overload capacity	≤110%:Continuous; 110%~≤120%:2min; >120%:200ms	
Communication parameters		
Human-computer interaction	10.1" Touch screen / Local web / Upper computer (Optional)	
Communication interface	Ethernet/RS485/CAN	
Communication with BMS	RS485/CAN (Optional)	
Communication with EMS	RS485/Ethernet (Optional)	
General		
Max. efficiency	98.5%	
Charge/discharge switching time (ms)	< 20	
Relative humidity	< 95% (Non-condensing)	
Operating temperature range (°C)	-30~+60 (>45 Derating)	
Storage temperature range (°C)	-40~+70	
Max. operating altitude (m)	5,000 (>3,000 Derating)	
Noise emission (dB)	< 70	
Pollution degree	External PD3; Internal PD2	
Over voltage category	DC type II / AC type III	
Protection degree	IP20 (Power compartment) IP5X (Control compartment)	
Cooling	Intelligent forced air-cooling	
DC connector	Quick connector(Support hot plug)	
AC connector	Quick connector(Support hot plug)	
Installation style	Rack-mounted (Vertical/horizontal)	
Dimension W*D*H (mm)	533.4(Without mounting ears 491)*650*174 21"4U	
Weight (kg)	48	