PM modular series

PMA inverter module

80-105kW

KEY STRENGTHS

USER FRIENDLY DESIGN

- Front maintained and back maintained optional.
- 19-inch rack for easy integration and 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.
- Supports remote upgrade,integrated local fault recorders.

APPLICATIONS

Peak load shifting

Demand side management

Emergency power supply

Dynamic expansion

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Model	PMA0080	PMA0105
Parameters for DC side		
Max. DC continuous power (kW)	88	115
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)	±160	±200
Max. DC continuous current (A)	±146	±190
Voltage stabilization accuracy	±1%	
Current stabilization accuracy	±2% (Of rated power)	
Parameters for AC side(on-grid)		
Rated active power (kW)	80	105
Max. apparent power (kVA)	96	126
Max. continuous apparent power (kVA)	88	115
Grid type	3W+PE or 3W+N+PE	
Rated AC voltage (V)	400/230	
Rated AC current (A)	115	150
Max. AC current (A)	138	180
Max. AC continuous current (A)	126	165
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)	80	105
Max. output apparent power (kVA)	96	126
Max. continuous apparent power (kVA)	88	115
Max. AC current (A)	138	180
Max. AC continuous current (A)	126	165
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 balance load)	
Output voltage imbalance	±1%; 120 ±1° (Of linear balance 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 (℃)	-30~+60 (>45 Derating)	
Storage temperature range (℃)	-40~+70	
Max. operating altitude (m)	5,000 (>3,000 Derating)	
Noise emission (dB)	< 70	
Over voltage category	DC type II / AC type III	
Pollution degree	External PD3; Internal PD2	
Protection degree	IP20 (Power compartment) IP5X (Control compartment)	
Cooling	Intelligent forced air-cooling	
DC connector	OT/DT terminal (Permanently connected)	
AC connector	OT/DT terminal (Permanently connected)	
Installation style	Rack-mounted (Vertical/horizontal)	
Dimension W*D*H (mm)	483(without mounting ears 444)*680*174(back maintained) 19"4U 483(without mounting ears 444)*680*220(front maintained) 19"5U	
Weight (kg)	50	
Standards compliance		
Grid connection standard	EN50549-1, EN50549-10, GB/T34120, GB/T34133	
Safty standard	EN62477-1, EN62109-1, EN62109-2	
EMC standard	EN IEC61000-6-2, EN IEC61000-6-4	