MEGAREVO

PM modular series

PMA inverter module

80-105kW

Key strengths

User friendly design

- Front maintained and back maintained optional.
- 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.
- 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 power (kW)	96	126
Operating DC voltage range (V)	700~950Vdc(3W+PE)	
Full load DC voltage range (V)	710~900Vdc(3W+PE)	
Max. DC current (A)	±135	±178
Voltage stabilization accuracy	±1%	
Current stabilization accuracy	±2%	
Parameters for AC side(on-grid)		
Rated active power (kW)	80	105
Max. apparent power (kVA)	96	126
Grid type	3W+PE	
Rated AC voltage (V)	480	
Rated AC current (A)	96	126
Max. AC current (A)	115	150
THDi	< 3% (Of rated power)	
Grid voltage range (V)	480±15% (According to load standards)	
Grid frequency range (Hz)	60±5 (According to load standards)	
Adjustable power factor range	-1 ~ +1	
Parameters for AC side(off-grid)		
Rated output active power (kW)	80	105
Max. output apparent power (kVA)	96	126
Max. AC current (A)	115	150
Rated outout voltage (V)	L-L:480	
Rated frequency (Hz)	60	
Output voltage precision	±1%	
Output frequency precision (Hz)	60 ± 0.2%	
THDu	<3%(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 (℃)	-30~+60 (>45 derating)	
Storage temperature range (℃)	-40~+70	
Max. operating altitude (m)	5,000 (>3,000 derating)	
Noise emission (dB)	< 70	
Pollution degree	External PD3; Internal PD2	
Protection degree	IP20	
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	