

SERIES PRO V5

Hybrid Inverter Selection Guide



- Built-in 2 MPPT trackers.
- Dual outputs for smart load management.
- 4.3" colored touch screen with user-friendly HMI operation.
- Programmable supply priority for PV, Battery or Grid.
- User-adjustable charging current and voltage.
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup.
- Built-in WiFi with APP for mobile monitoring.
- Reserved communication port for BMS.
- Parallel or Wi Fi operation up to 9 units.

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MODEL	MF-OME-PRO 4.2KW	MF-OME-PRO 6.2KW	MF-OME-PRO 8.2KW
PHASE	1-phase in / 1 phase out		
MAXIMUM PV INPUT POWER	7000W (3500W x 2)	9000W (4500W x 2)	12000W (6000W x 2)
RATED OUTPUT POWER	6200W with PV & battery ; 4200W with battery only	8200W with PV & battery ; 6200W with battery only	9200W with PV & battery ; 8200W with battery only
Maximum Charging Power	4000W	6000W	8000W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC		
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC		
MPP Voltage Range	85 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 22 A+22A	2 / 22 A+22A	2 / 22 A+22A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	26.1A	34.8A	40.0A
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	96%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Maximum AC Input Current	40 A	40 A	60 A
PV INPUT (DC)			
Maximum DC Voltage	500 VDC		
MPP Voltage Range	85 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 22 A+22A	2 / 22 A+22A	2 / 22 A+22A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sinewave		
Efficiency (DC to AC)	93%		
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC		
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC		
MPP Voltage Range	85 VDC ~ 430 VDC		
Number of MPP Trackers / Maximum Input Current	2 / 22 A+22A	2 / 22 A+22A	2 / 22 A+22A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)		
Nominal Output Current	26.1A	34.8A	40.0A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC		
Maximum AC Input Current	40A	40A	60 A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Waveform	Pure sine wave		
Nominal Output Current	18.27A	27A	35.66A
Efficiency (DC to AC)	93%		
BATTERY & CHARGER			
Nominal DC Voltage	48 VDC		
Maximum Solar Charging Current	80A	130A	150A
Maximum AC Charging Current	80A	120A	120A
Maximum Charging Current	80A	130A	150A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	138.4 x 338 x 491.8		
Net Weight (kgs)	12	12.3	13.5
INTERFACE			
Parallel Function	Yes, 9 units		
Communication Port	USB/RS232/RS485/Wifi/Dry-contact		
ENVIRONMENT			
Humidity	0 - 90% RH (Non-condensing)		
Operating Temperature	-10 to 50°C		
PROTECTION & CERTIFICATE			
Standard	IEC62109, IEC61683, IEC62116, IEC61727		

Product specifications are subject to change without further notice.