

Multisolar II - 15kW *Data Sheet*



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Optional dual outputs for smart load management (check sales)
- Built-in AC coupled function
- User-adjustable charging current and voltage
- Reserved communication port for BMS (RS485)
- Parallel operation up to 6 units

Multisolar II Three phase on-grid inverter with energy storage selection guide

MODEL	10KW	12KW	15KW
MAXIMUM PV INPUT POWER	14500W	16000W	16000W
RATED OUTPUT POWER	10000W	12000W	15000W
MAXIMUM CHARGING POWER	10000W	12000W	15000W
GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage / Maximum DC	720 VDC / 1000 VDC	720 VDC / 1000 VDC	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC		
MPP Voltage Range	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2 / A: 27A, B: 27A	2 / A: 27A, B:13A	2 / A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 1	A: 2, B: 2
GRID OUTPUT (AC)			
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)		
Output Voltage Range	184 - 265 VAC per phase		
Nominal Output Current	14.5 A per phase	17.4 A per phase	21.7 A per phase
Power Factor range	0.9 lag ~ 0.9 lead		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	>96%		
European Efficiency@ Vnominal	>95%		
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		
Acceptable Input Voltage Range	170 - 290 VAC per phase		
Maximum AC Input Current	40 A	40A	40 A
PV INPUT (DC)			
Maximum DC Power	14500W	16000W	16000W
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
MPP Voltage Range	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC
Number of MPP Trackers / Maximum Input Current	2/A: 27A, B: 13A	2/A: 27A, B: 13A	2/A: 27A, B: 27A
Number of Strings Per MPP Tracker	A: 2, B: 1	A: 2, B: 2	A: 2, B: 2
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	91%	91%	91%
HYBRID OPERATION			
PV INPUT (DC)			
Maximum DC Voltage	1000 VDC	1000 VDC	1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC		
MPP Voltage Range	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC	350 VDC ~ 850 VDC
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BATTERY & CHARGER			
Battery Voltage Range	40 ~ 62 VDC	40~62 VDC	40 ~ 62 VDC
Maximum Charging Current	220 A	250 A	300 A
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	247 X 500 X 650	255 X 660 X 750	
Net Weight (kgs)	42	70	73
INTERFACE			
Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi		
Intelligent Slot	Optional for SNMP and Modbus cards		
ENVIRONMENT			
Humidity	0~100% RH (Non-condensing)		
Operating Temperature	-25 to 60°C, >45°C power derating		
Altitude	0 ~ 1000 m **		

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.