

MPPT Solar Inverter

SM-ONYX-DUAL-8KW



Wifi
Monitoring



Smart &
Safe



Dual MPPT
18A + 18A



DUAL AC
Output



LCD
Display



Pure
Sine Wave

LIFETIME WARRANTY

5 Year Unlimited Parts & Lifetime Free Service Warranty

*Terms & Conditions Apply



- Pure Sine Wave Solar MPPT Inverter
- Dual outputs, for smart load management
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Parallel operation up to 6 units

SOLARMAX ONYX DUAL 8KW SPECIFICATION

MODEL	SM-ONYX-DUAL-8KW
PHASE	1-phase in / 1-phase out
RATED OUTPUT POWER	8000VA / 8000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	500VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)
Nominal Output Current	34.7A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	95%
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	60A
PV INPUT (DC)	
Maximum DC Voltage	500VDC
MPP Voltage Range	120VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 MPPT 18A + 18A
Maximum PV Array Power	10000Watt (5000Watt x 2)
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Maximum DC Voltage	500VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 MPPT 18A + 18A
Maximum PV Array Power	10000Watt (5000Watt x 2)
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable)
Nominal Output Current	34.7A
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	60A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	192 x 360 x 665
Net Weight (kgs)	32
INTERFACE	
Parallel Function	Yes, 6 units
Communication Port	USB or RS-232/Dry Contact/RS485/Wi-Fi
ENVIRONMENT	
Humidity	0 ~ 95% RH (No condensing)
Operating Temperature	-25°C to 50°C

Product specifications are subject to change without further notice.