



SolarMax®
Since 2007

**LIFETIME
WARRANTY**

2 years free parts replacement &
Lifetime free service warranty

*Terms & conditions apply



SolarMax®



ORION
DUAL Series

ORION
DUAL SERIES

SM-ORION-DUAL

**PV8000+
PV11000+**

NO.1 PV INVERTER
EXPERT

**LIFETIME
WARRANTY**

Terms & Conditions Apply

MPPT INVERTER
3 IN ONE
ON-GRID | OFF-GRID | HYBRID

www.solarmax.pk

SM-ORION-DUAL

PV8000+ | PV11000+

Features



Max PV Input
8000W+ & 11000W+



Max PV Voltage
500VDC



DUAL AC Output
8000W & 11000W



Max Charging
Current 150A



MPPT Range
90 ~ 450VDC



Colored LCD
& Touch Buttons



**Work With &
Without Battery**
48VDC



Net Metering
Feed into Grid



Zero Export
Built-in



Smart & Safe



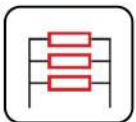
Smart Power Management
Set Multiple Schedule



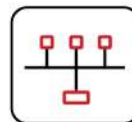
Battery Management
System



Monitor & Control
with Built-in Wifi



Support Parallel Operations
Upto 6 Units



Communication Ports
RS232/USB/RS485/CAN

User programmable RGB lighting for different operation mode



Cycling

Quickly scroll with a colour of your choice in a continuous circular motion



Wheel

Illuminates with twinkling lights in a color of your choice



Chasing

Radiates your selected color upward from the bottom of the ring



SolarMax® Orion Dual Series On-Grid Inverters with Energy Storage

MODEL	SM-ORION-DUAL-PV8000+	SM-ORION-DUAL-PV11000+
Capacity	8000VA/8000W	11000VA/11000W
MAXIMUM DUAL PV INPUT POWER	8000W (4000W x 2)	11000W (5500W x 2)
RATED OUTPUT POWER	8000W	11000W
SURGE POWER	16000VA	22000VA
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	500 VDC	
Start-up Voltage / Initial Feeding Voltage	80V + / - 5VDC	
MPPT Voltage Range	90 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 27A + 27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC	
Nominal Output Current	34.8 A	47.8 A
Waveform	Pure Sine Wave	
Transfer Time	10 ms (For Computers), 20 ms (For Home Appliances)	
Optional DC Voltage	12 VDC ± 5%, 100W	N/A
OFF-GRID OPERATION		
AC INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Computers)	90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Input Voltage Waveform	S inusoidal (Utility or Generator)	
PV INPUT (DC)		
Maximum DC Voltage	500 VDC	
MPPT Voltage Range	90 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 27A + 27A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230VAC ± 5%	230VAC ± 5%
Output Waveform	Pure Sine Wave	
Battery Supported	LEAD ACID VRLA AGM DEEP CYCLE GEL FLOODED LITHIUM-ION (BMS BUILT-IN)	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	500 VDC	
Start-up Voltage / Initial Feeding Voltage	90 VDC	
MPPT Voltage Range	90 VDC ~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	2 / 27A + 27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240 VAC	
Output Voltage Range	184 - 264.5 VAC	
Nominal Output Current	34.8 A	47.8 A
AC INPUT		
Voltage	230 VAC	
AC Start-up Voltage / Auto Restart Voltage	180 VAC ± 7V (For Computers)	100 VAC ± 7V (For Home Appliances)
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	120A	150A
Maximum AC Charging Current	120A	150A
Maximum Charging Current	150A	
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	
Net Weight (kgs)	18.4	
INTERFACE		
Parallel Function	6 units (Parallel Kit Built-in)	
Communication Port	USB/RS232/RS485/CAN/WIFI/Dry-contact	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10 to 50°C	
Storage Temperature	-15 to 60°C	

Product specifications are subject to change without further notice.