

DUAL ULTRA

8KW - 11KW HYBRID INVERTER

DUAL AC INPUT - DUAL AC OUTPUT



LIFETIME WARRANTY

- 2 Years Unlimited Parts Replacement
- Life time Free Service Warranty

*Terms & conditions apply

FEATURES

THAT NEVER SEEN BEFORE



**Dual MPPT
PV Input**



**Dual AC Input
Switched
Automatically**



**Dual AC Output
(Main Load & Smart Load)**



**Max PV Voltage
500VDC**



**MPPT Range
90~450VDC**



**Max PV Input
Current 27A x 2
(Max 40A)**



**Works with &
without battery
48V**



**Max Charging
Current 150A**



**Smart Power
Management Set
Multiple Schedule**



**Built-in Wifi for
Mobile Monitoring &
OTA Firmware Upgrade**



**Zero Export
Built-in**



**Net Metering
feed into Grid**



**Colored LCD with
Slide Operation**



**Power Status
LED Lighting
Indicators**



**Built-in (BMS)
Battery Management
System**



**Built-in
CT Function
(to meet self consumption
application)**



**Built-in
Parallel Kit
(6 Units can be parallel
in single & three phase)**



**USB
ON-THE-GO
Function**



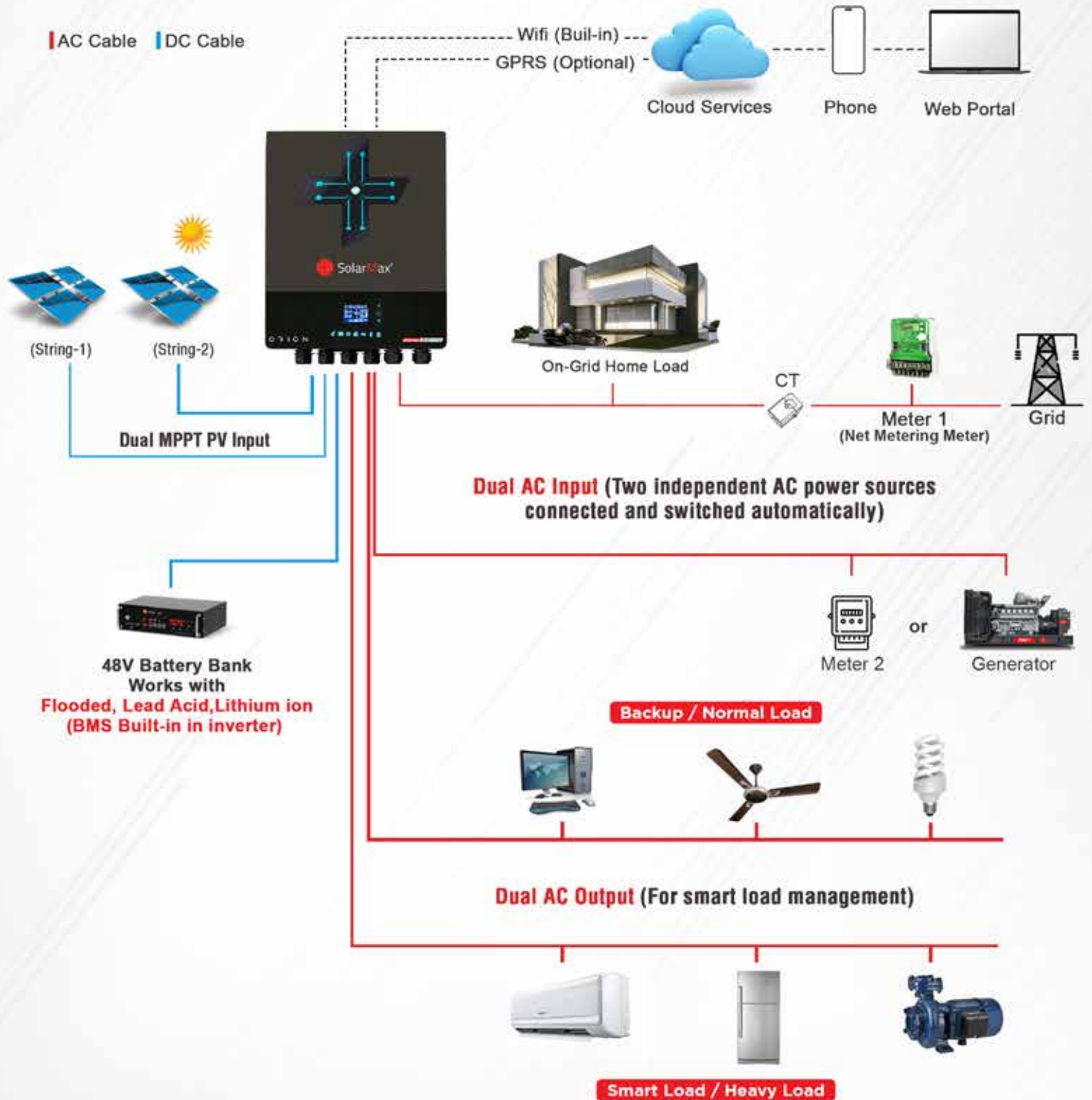
**Support Optional
GFCI, Rapid Shutdown,
AFCI Detections**



**Smart &
Safe**

DUAL AC IN & DUAL AC OUTPUT

ORION ULTRA SERIES WORKING DIAGRAM IN HYBRID MODE





- Two independent AC power sources connected and switched automatically
 - Dual outputs, for smart load management



MODEL	SM-ORION-ULTRA-8KW	SM-ORION-ULTRA-11KW
Rated Inverter Power	8000VA / 8000W	11000VA / 11000W
PARALLEL CAPABILITY	6 Units in Single & Three Phase	
INPUT (Utility & Generator Power)		
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)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	230VAC ± 5%
Surge Power	16000VA	22000VA
Waveform	Pure Sine Wave	
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)	
Dual AC Output(Main & Smart Load)	8000W	11000W
BATTERY		
Battery Voltage	48 VDC	48 VDC
Floating Charge Voltage	54 VDC	54 VDC
Overcharge Protection	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger type	MPPT	
Maximum PV Array Power	10000W (5000W x 2)	12000W (6000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A x 2(MAX 40A)	
Maxmum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
INTERFACE		
Display	LED lighting indicators, colored LCD	
Communication Interface	Built-in USB/RS232/RS485/WiFi/Dry-contact/BTS Support optional GFCI, Rapid shutdown, AFCI detection	
External current sensor port	Yes, built-in current transformer sensor	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
PHYSICAL		
Dimension, D X W X H (mm)	158.4 x 503.6 x 530.8	
Net Weight (kgs)	20	