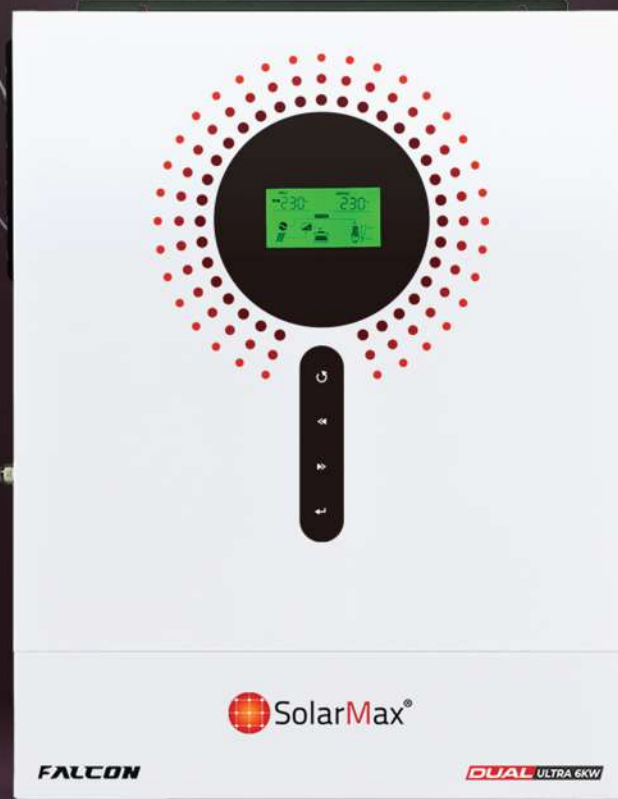


DUAL ULTRA

6KW HYBRID INVERTER

DUAL AC INPUT - DUAL AC OUTPUT



Max PV Input
6000W+



Dual AC Input
230VAC



Dual AC Output
6000W



Max PV Voltage
500VDC



MPPT Range
60-450VDC



Max PV Input
Current 27A



Works with &
without Battery 48V



Maximum Charging
Current 120A



Smart Power
Management Set
Multiple Schedule



Monitor & Control
with Built-in Wifi



(BMS)
Battery Management
System



Net Metering
Feed into Grid



Zero Export
Built-in



Smart &
Safe

LIFETIME WARRANTY

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

*Terms & conditions apply



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



MODEL	SM-FALCON-ULTRA-6KW
Rated Power	6000VA/6000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC \pm 5%
Surge Power	12000VA
Waveform	Pure Sine Wave
Transfer Time	10 ms (For Personal Computers) OR 20 ms (For Home Appliances)
Dual AC Output (Main Load & Smart Load)	6000W
BATTERY & AC CHARGER	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
Maximum Charge Current	100A (From Grid)
SOC Display	Shows Battery states in % and voltage as well
Battery Voltage Low Cutt Off Schedule	42V - 49V
Battery High Voltage Range Schedule	50V - 60V
SOLAR MPPT CHARGE CONTROLLER	
Maximum PV Array Open Circuit Voltage	500VDC
Maximum PV Array Power	6000W+
Maximum PV Input Current	27A
MPPT Range @ Operating Voltage	60-450VDC
Maximum Charge Current	120A
Maximum Efficiency	98%
INTERFACE	
Communication Interface	Built-in Wifi, RS232/RS485 (BMS Compatible with lithium battery using RS-458)
Display	LCD
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)	136 x 323.6 x 449.3
Net Weight (kgs)	10.3

DUAL AC IN & DUAL AC OUTPUT

FALCON ULTRA SERIES WORKING DIAGRAM IN HYBRID MODE

