SolarMax®
Since 2007

LIFETIME WARRANTY
2 years free parts replacement &
Lifetime free service warranty

* Terms & conditions apply

FALCON PV4000+

ON-GRID | OFF-GRID | HYBRID
WITH NET METERING

NO.1 PV INVERTER EXPERT

- Max PV Input 4000W+
- Max PV Voltage 500VDC
- Max PV Input Current 18A
- MPPT Range 120 ~ 450VDC
- AC Output 3000W
- Smart & Safe
- Zero Export Built-in
- 100A Max Charging Current
- Work With & Without Battery 24VDC
- Net Metering Feed into Grid
- Monitor & Control (Optional)
- Comunication Ports RS232/RS485

SolarMax® Falcon Series 3 in 1 Inverter with Energy Storage

MODEL	SM-FALCON-PV4000+
PHASE	1-phase in / 1-phase out
MAXIMUM PV INPUT POWER	4000W+
RATED OUTPUT POWER	3000W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	320 VDC / 500 VDC
MPPT Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
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
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPPT Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	18A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	320 VDC / 500 VDC
MPPT Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
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
BATTERY MODE OUTPUT (AC)	
Battery Supported	LEAD ACID | VRLA | AGM | DEEP CYCLE | GEL | FLOODED | LITHIUM-ION
Nominal Output Voltage	220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	24VDC
Maximum Solar Charging Current	80A
Maximum AC Charging Current	100A
Maximum Charging Current	100A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	100 x 300 x 440
Net Weight (kgs)	9
INTERFACE	
Communication Port	RS232/RS485
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50ºC

Product specifications are subject to change without further notice.