

GREEN POWERBOX – Hybrid PV Inverter 3KW SCPV 3000



- 3KW hybrid inverter
- Pure sine wave output
- Microprocessor controlled to guarantee stable charging system
- Multiple operations. Grid tie, Off grid and grid-tie with backup
- Built-in MPPT (Maximum Power Point Tracking) charger
- LCD display panel for comprehensive information
- Multiple communications
- Green substitution for generators
- User-adjustable charging current up to 25A

MODEL	SCPV 3000
Rated Power	3000 W
Maximum PV Input	3000 Wp
Recommended Battery Size	48V 260AH
Maximum Load	110% of Rated Power
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage/Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC / 450 VDC
Maximum Input Current	13A
GRID/UTILITY INPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 – 265 VAC
Nominal Output Current	13.6A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC / AC)	> 95.5%
European Efficiency @ Vnominal	> 94.5%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 – 140 VAC / 185 VAC
Acceptable Input Voltage Range	175 – 280 VAC
Maximum AC input Current	20A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	250 VDC – 450 VDC
Maximum Input Current	13A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Wave Form	Pure sine wave
Efficiency (DC to AC)	92%

HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage/ initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC / 450 VDC
Maximum Input Current	13A
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Ronger	184 – 265 VAC
Nominal Output Current	13.6A
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120 – 140 VAC / 194 VAC
Acceptable Input Voltage Range	184 – 265 VAC
Maximum AC input Current	20A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Efficiency (DC to AC)	92%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	25A
GENERAL	
PHYSICAL	
Dimension D x W x H (mm)	420 x 415 x 170
Net Weight (kg)	15.5
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus, GPRS, and AS400 cards
ENVIRONMENT	
Humidity (No Condensing)	0 – 90%, RH
Operating Temperature	0 to 40°C
Altitude	0 – 1000M ²