

GREEN POWER BOX - Hybrid PV Inverter 10KW SCPV10KW



- 10KW 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 solar charger
- LCD display panel for comprehensive information
- Multiple communications
- Green substitution for generators
- User-adjustable charging current (default 60A)



| MODEL | SiliconCPV 10KW |
|---|---|
| PHASE | 3 – phase in / 3 – phase out |
| Max. PV INPUT POWER | 14850W |
| Rated Output Power | 10000W |
| Maximum Charging Power | 9600W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage/Max. DC Voltage | 720 VDC / 900 VDC |
| Start-up Voltage/Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 400 VDC ~ 800 VDC |
| No of MPP Trackers / Max Input Current | 2/2 x 18.6A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC* (P-P) |
| Output Voltage Range | 184 -265 VAC* per phase |
| Nominal Output Current | 14.5A per phase |
| Power Factor | >0.99 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 96% |
| European Efficiency @ V nominal | 95% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC start-up Voltage/Auto Restart Voltage | 120-140 VAC per phase / 180 VAC per phase |
| Acceptable Input Voltage Range | 170 -280 VAC per phase |
| Max. AC Input Current | 40A |
| PV INPUT (DC) | |
| Max. DC Voltage | 900 VDC |
| MPP Voltage Range | 400 VDC ~ 800 VDC |
| Number of MPP Trackers/Max. Input Current | 2/2 x 18.6A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Waveform | Pure Sinewave |
| Efficiency (DC to AC) | 91% |

| MODEL | SiliconCPV 10KW |
|--|--|
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage /. Max DC Voltage | 720 VDC / 900 VDC |
| Start-up Voltage / Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 400 VDC ~ 800 VDC |
| Number of MPP Trackers/Max. Input Current | 2/2 x 18.6A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184-264.5 VAC* per phase |
| Nominal Output Current | 14.5A per phase |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120-140 VAC per phase / 180 VAC per phase |
| Acceptable Input Voltage Range | 170 -280 VAC per phase |
| Max. AC Input Current | 40A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Efficiency (DC to AC) | 91% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 48 VDC |
| Max. Charging Current | Default 60A, 10A-200A Adjustable |
| GENERAL | |
| PHYSICAL | |
| Dimensions, D x W x H (mm) | 167.5 x 500 x 622 |
| Net Weight (KG) | 45 |
| INTERFACE | |
| Communications Port | RS-232 / USB and CAN Interface |
| Intelligent Slot | Optional SNMP, Modbus and AS-400 cards available |
| ENVIRONMENT | |
| Humidity | 0~90% RH (Non-condensing) |
| Operating Temperature | -10 to 55°C |
| Altitude | 0 – 1000 M** |

These figures may vary depending on environment, voltage and country requirements

**Power derating 1% every 100m when altitude is over 1000m

Product specifications are subject to change without further notice