Hybrid Inverter with Grid Feeding

Krypton 11008

Model:
8kW-48-pV12000-TWIN

HMI Touchable Screen

Dual **MPPT**

RGB Shifting

In Built Wifi

Large HMI Touchable Screen

Dual MPPT

Intelligent Load Management

Dual Output

Grid Feeding

Batteryless Operation

Battery Management System

Parallel upto 9 Units

Easy-to-install

- Large HMI touchable screen
- Dual outputs, for smart load management
- Maximum PV input current increases to 22Ax2
- Wide PV input voltage range 90VDC ~ 450VDC
- Status indication with RGB lights
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)

Reliable

- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- USB-A OTG firmware upgrades

User-Friendly

- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- CT function for self consumption (optional)
- Parallel operation with 9 units

Technical Datasheet

KNOX SERIES	Krypton 11008
MODEL	**8kW-48-pV12000-TWIN**
Phase	Single Phase
Maximum PV Input Power	12000 W
Rated Output Power	8000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC / 150 VDC
MPPT Voltage Range	120 VDC ~ 430 VDC
Number of MPP T rackers / Maximum Input Current	2x22A / Isc 2x30A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	34.8A
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Effi ciency (DC/AC)	95%
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
Frequency Range	50 Hz/60 Hz (Auto sensing)
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	63 VDC
Solar Charger type	MPPT
Maximum Solar Charging Current	150A
Maximum AC Charging Current	120 A
Maximum Charging Current	120A
Surge Power	13000VA
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	140 x 295 x 468
Net Weight (kgs)	13.5
INTERACE	
Parallel Function	Yes, 9 units
Communication Port	USB/RS232/RS485/Wifi/Dry-contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
Certificates and approvals (more available on request)	IEC 61682 / Low Voltage Directive 2014/35/EU IEC 62109-1 / IEC 62109-2 / IEC 61683