

On-Grid Inverter with Energy Storage

Krypton 6000 & 6500



Models:

4kW-24-pV6000-TWIN

4.5kW-24-pV6500-TWIN



In Built Wifi



Intelligent Load Management



Dual Output



Grid Feeding



Batteryless Operation



Battery Management System



Easy-to-install

- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- 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)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization



User-Friendly

- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on.

Technical Datasheet

KNOX SERIES	Krypton 6000		Krypton 6500
MODEL	4kW-24-pV6000-TWIN		4.5kW-24-pV6500-TWIN
Phase	Single Phase		
Maximum PV Input Power	6000 W	6500 W	
Rated Output Power	4000 W	4500 W	
Battery + PV 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	60 - 450 VDC		
Number of MPP Trackers / Maximum Input Current	1 / 27A (MAX 40A)		
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240 VAC		
Output Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)		
Nominal Output Current	17.4 A	19.5 A	
Power Factor	> 0.99		
EFFICIENCY			
Maximum Conversion Efficiency (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%		
DC Voltage	12 VDC ± 5%, 100W		
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	120 A		
Maximum AC Charging Current	120 A		
Maximum Charging Current	120A		
Surge Power	8000VA	9000VA	
GENERAL			
PHYSICAL			
Dimension, D x W x H (mm)	120 x 330 x 520		
Net Weight (kgs)	12	12	
INTERACE			
Communication Port	USB/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		