

On-Grid Inverter with Energy Storage

# Krypton 6000 & 6500



Models:

4kW-24-pV6000-TWIN

4.5kW-24-pV6500-TWIN

Isc 40A

4.3" LCD Display

RGB Shifting



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 30A (Isc 40A)
- 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

- USB-A OTG firmware upgrades
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit

# 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	4000 W	4500 W
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
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	1x30A (MAX 40A)	
<b>GRID OUTPUT (AC)</b>		
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	
<b>EFFICIENCY</b>		
Maximum Conversion Efficiency (DC/AC)	95%	
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
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)	
<b>BATTERY MODE OUTPUT (AC)</b>		
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)	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	24VDC	
Floating Charge Voltage	27 VDC	
Overcharge Protection	32 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
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	119 x 313.6 x 457.5	
Net Weight (kgs)	10	12
<b>INTERACE</b>		
Communication Port	USB/RS232/RS485/Wifi/Dry-contact	
<b>ENVIRONMENT</b>		
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	