



On-Grid Inverter with Energy Storage

Krypton 7502



In Built Wifi



Dual MPPT



Grid Feeding



Dual Output



Intelligent Load
Management



Batteryless
Operation



Battery Management
System

Model: Krypton 7502 5.5KW



Easy-to-install

- Applicable for pure off-grid backup power / self-consumption
- PV input voltage range 80Vdc-500Vdc
- PV input current up to 32A
- Supports battery mode & non-battery mode
- Battery & PV reverse polarity protection



Reliable

- Dual pure sine wave output
- Supports single-phase or three-phase parallel operation (up to 16 units)
- Sleep mode triggered by low power output or low battery voltage Independent BMS communication interface
- Built-in WiFi for mobile monitoring
- Isolated RS485 interface: Connects with Bluetooth, WiFi, 4G, etc.



User-friendly

- Optional 320 × 480 high-resolution color LCD touchscreen or monochrome screen
- Historical data recording function, storage capacity of 25000 records
- Comprehensive electronic protection ensures safer and more stable operation
- IP20 enclosure design with anti-dust kit

MODEL	KRYPTON 7502 5.5KW
Utility Input	
Utility Input Voltage	176VAC ~ 264VAC(Default), 90VAC ~ 285VAC(Configurable)
Utility Input Frequency	45Hz ~ 65Hz
Max. Utility Charging Current	100A
Switch Response Time	Inverter to Utility : 10ms Utility to Inverter : 20ms
Inverter Output	
Inverter Rated Power (@30°C)	5500W
3-Second Transient Surge Output Power	8500W
Inverter Output Voltage	220/230VAC
Inverter Frequency	50/60Hz
Output Voltage Waveform	Pure Sine Wave
Load Power Factor	0.2-1(VA ≤ Rated output power)
THDv (@linear load)	≤3%
Max. Load Efficiency	92%
Max. Inverter Efficiency	94%
Max. Main Load	5500W
Max. Second Load	5500W
Main Output Cut-Off Voltage	48.8V(Default)
Second Output Cut-Off Voltage	44.4V(Default)
Dual Output Return Voltage	50.4V(Default)
PV Input	
PV Max. Open-Circuit Voltage	500V
MPPT Voltage Range	85~450V
Number of MPPTs	2
Number of Strings per MPPT	1+1
Max. Input Current	16A+16A
PV Max. Short Circuit Current	18A+18A
PV Max. Input Power	7500W
PV Max. Output Power	6600W
PV Max. Charging Current	100A
MPPT Max. Efficiency	≥99.5%
Battery	
Battery Rated Voltage	48VDC
Battery Work Voltage Range	40.8VDC~64VDC
Max. Charging Current	100A
General Data	
No-load Losses	<1.1 A
Standby Current	<0.8A
Communication with BMS	RS485
Communication with Portal	RS485 (4G/WiFi/Bluetooth)
Parallel Function	Yes, Standard 12 units, Up to 16 units
Work Temperature Range	-20°C~+50°C (>30°C Derating)
Storage Temperature Range	-25°C~+60°C
Enclosure	IP20 (With anti-dust kit)
Relative Humidity	< 95% (N.C.)
Altitude	4000m (>2000m Derating)
Certifications and Standards	IEC 62109-1, IEC 62109-2, IEC 61683, IEC 62368
Dimension (Length×Width×Height)	590mm×300mm×163mm
Mounting Size (Length×Width)	568mm x 245mm
Mounting Hole Size	Φ9mm/Φ10mm
Net Weight	15.5Kg



Electro industries (Pvt) Ltd.
Warranty Claim: 0304-111(KNOX)5669
www.knoxpv.com