

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               |  |
| 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 T rackers / Maximum Input Current           | 1x30A (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 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                                        | 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               |  |
| GENERAL                                                   |                                                                                       |  |                      |  |
| PHYSICAL                                                  |                                                                                       |  |                      |  |
| Dimension, D x W x H (mm)                                 | 119 x 313.6 x 457.5                                                                   |  |                      |  |
| Net Weight (kgs)                                          | 10                                                                                    |  | 12                   |  |
| INTERACE                                                  |                                                                                       |  |                      |  |
| 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<br>(more available on request) | IEC 61682 / Low Voltage Directive 2014/35/EU<br>IEC 62109-1 / IEC 62109-2 / IEC 61683 |  |                      |  |

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