



# RCT INFINISOLAR WP 30K-48V

- RCT 30KVA/KW 3 Phase Grid Tied Weatherproof IP65 Inverter
- NRS097 Compliant
- IP65 Waterproof and dustproof makes the inverter available for various working conditions
- 150% unbalanced load support
- Dual outputs for smart load management
- Built-in AC coupled function
- Built-in Wi-Fi for mobile monitoring
- User-adjustable charging current up to 50 A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- 5 Years Warranty
- Parallel operation up to 4units



## POWER

**40 000 W**

Maximum PV  
Input Power

**30 000 W**

Rated  
Output Power

**30 000 W**

Maximum  
Charging Power



## GRID-TIE OPERATION

### PV INPUT (DC)

#### NOMINAL DC VOLTAGE / MAXIMUM DC VOLTAGE:

720 VDC / 1000 VDC

#### START-UP VOLTAGE / INITIAL FEEDING VOLTAGE:

320 VDC / 350 VDC

#### MPP VOLTAGE RANGE:

350 VDC ~ 900 VDC

#### NUMBER OF MPP TRACKERS / MAXIMUM INPUT CURRENT:

3 / A: 27A, B: 27A, C: 27A

#### NUMBER OF STRINGS PER MPP TRACKER:

A: 2, B: 2, C: 2

### GRID / UTILITY OUTPUT (AC)

#### NOMINAL OUTPUT VOLTAGE:

230 VAC (P-N) / 400 VAC (P-P)

#### OUTPUT VOLTAGE RANGE:

184 - 265 VAC per phase

#### NOMINAL OUTPUT CURRENT:

43.5 A per phase

#### POWER FACTOR:

0.9 lag to 0.9 lead

### EFFICIENCY

#### MAXIMUM CONVERSION EFFICIENCY (DC/AC):

> 96.5%

#### EUROPEAN EFFICIENCY @ V<sub>NOMINAL</sub>:

> 96%

## OFF-GRID OPERATION

### AC INPUT

#### AC START-UP VOLTAGE / AUTO RESTART VOLTAGE:

120 - 140 VAC / 180 VAC

#### ACCEPTABLE INPUT VOLTAGE RANGE:

170 - 280 VAC per phase

#### MAXIMUM AC INPUT CURRENT:

50 A

### PV INPUT (DC)

#### MAXIMUM DC VOLTAGE:

1000 VDC

#### MPP VOLTAGE RANGE:

350 VDC ~ 900 VDC

#### NUMBER OF MPP TRACKERS / MAXIMUM INPUT CURRENT:

3 / A: 27A, B: 27A, C: 27A

### BATTERY MODE OUTPUT (AC)

#### NOMINAL OUTPUT VOLTAGE:

230 VAC (P-N) / 400 VAC (P-P)

#### OUTPUT WAVEFORM:

Pure sine wave

#### EFFICIENCY (DC TO AC):

96%



**HYBRID OPERATION**

**PV INPUT (DC)**

**MAXIMUM DC VOLTAGE:** 1000 VDC

**START-UP VOLTAGE / INITIAL FEEDING VOLTAGE:**

320 VDC / 350 VDC

**MPP VOLTAGE RANGE:**

350 VDC ~ 900 VDC

**NUMBER OF MPP TRACKERS / MAXIMUM INPUT CURRENT:**

3 / A: 27A, B: 27A, C: 27A

**GRID OUTPUT (AC)**

**NOMINAL OUTPUT VOLTAGE:**

230 VAC (P-N) / 400 VAC (P-P)

**OUTPUT VOLTAGE RANGE:**

184 - 265 VAC per phase

**NOMINAL OUTPUT CURRENT:**

43.5 A per phase

**AC INPUT**

**AC START-UP VOLTAGE / AUTO RESTART VOLTAGE:**

120 - 140 VAC / 180 VAC

**ACCEPTABLE INPUT VOLTAGE RANGE:**

170 - 280 VAC per phase

**MAXIMUM AC INPUT CURRENT:**

50 A

**BATTERY MODE OUTPUT (AC)**

**NOMINAL OUTPUT VOLTAGE:**

230 VAC (P-N) / 400 VAC (P-P)

**EFFICIENCY (DC TO AC):** 96%

**BATTERY & CHARGER**

**BATTERY VOLTAGE RANGE:**

600 ~ 1000 VDC

**MAXIMUM CHARGING CURRENT:** 50 A

**GENERAL**

**INTERFACE**

**COMMUNICATION PORT:**

RS-232, USB, Dry Contact, RS-485 and Wi-Fi

**INTELLIGENT SLOT:**

Optional SNMP, Modbus and GPRS

**ENVIRONMENT**

**HUMIDITY:**

0 ~ 100% RH

**OPERATING TEMPERATURE:**

-25 to 60°C (>45°C derating)

**ALTITUDE:\***

0 ~ 1000m

\*Power derating 1% every 100m when altitude is over 1000m. Please Note: Product specifications are subject to change without further notice.

**DIMENSIONS (D x W x H): 255 mm x 660 mm x 750 mm | PRODUCT WEIGHT: 73kgs**