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**Terra Solar**



## Hybrid Inverter Charger TSH - 8048 MAX II TWIN

- ✓ Dual outputs, for smart load management
- ✓ Maximum PV input increases to 27A
- ✓ Wide PV input voltage range 90VDC ~ 450VDC
- ✓ Status indication with RGB lights
- ✓ Built-in Wi-Fi for mobile monitoring (Android/iOS apps available)
- ✓ Supports USB On-the-Go function
- ✓ Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- ✓ Replaceable fan design for ease of maintenance
- ✓ Battery independent design
- ✓ Configurable AC/PV output usage timer and prioritization
- ✓ 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
- ✓ Parallel operation with 6 units

### Hybrid Inverter Charger TSH - 8048 MAX II TWIN

### Specifications

MODEL	TSH - 8048 MAX II TWIN
RATED POWER	8000VA/8000W
PARALLEL CAPABILITY	YES, 6 units
<b>INPUT</b>	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
<b>OUTPUT (OFF-GRID OPERATION)</b>	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	16000VA
Efficiency (Peak)	93%
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform	Pure sine wave
DC Voltage	12 VDC ± 5%, 100W
<b>OUTPUT (GRID-TIE OPERATION)</b>	
Nominal Output Voltage	230 VAC
Output Voltage Range	195.5 - 253 VAC (Selectable)
Output Frequency Range	49 Hz ~ 51 Hz
<b>BATTERY</b>	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger Type	MPPT
Maximum PV Array Power	8000W (4000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum PV Input Current	27A x 2 (MAX. 40A)
Maximum Solar Charge Current	150A
Maximum AC Charge Current	120A
Maximum Charge Current	150A
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	158.4 x 503.6 x 530.8
Net Weight (kgs)	20
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact
<b>OPERATING ENVIRONMENT</b>	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

