GREEN ENERGY SOLUTIONS

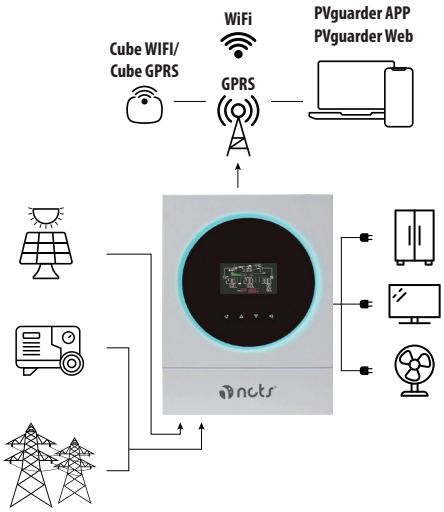
ORION Series
Off-Grid Inverters

ORION 5.6kW

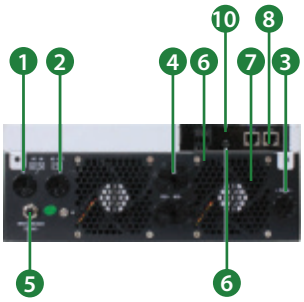
Product Features

- Pure sine wave inverter
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Built-in Wi-Fi for mobile monitoring (APP is required)
- Supports USB On-the-Go function
- Built-in anti-dusk kit
- Reserved communication ports for BMS (RS485, CAN-BUS, Rs232)
- Configurable input voltage rang es for home appliances and personal computers via LCD control panel
- Configurable output usage timer and prioritization
- Configurable charger source priority via LCD control panel
- Configurable battery charging current based on applications via LCD control panel
- Compatible to utility mains or generator power

System Connections



1 AC input
2 AC output
3 PV input
4 Battery input
5 Circuit breaker
6 Dry Contact
6 COM
5 BMS
7 USB
5 Built-in WiFi



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ORION 5.6kW

Off-Grid Inverters

Technical Specifications

Model: NCTS-ORION 5.6KW

Rated Power	5.6KVN5.6KW
Input	
Voltage	230VAC
Voltage range	170-280 VAC (for PC) or 90-280 VAC (for Horne Appl i ance)
Frequency Range	60/50Hz (Auto sensing)
Output	
AC Voltage Regulation (Bat Mode)	230VAC+-5%
Overload Protection	Ss@;,,130% lo ad; 10s@105%-130% load
Surge Capacity	2*rated power for 5 seconds
Efficiency (Peak)	93%
Transfer Time	10 ms typical (UPS): 20ms typical (Appl i ances)
Wave form	Pure sine wave
Battery	
Batery Voltage	48VDC
Bulk Charging Voltage	
Flooded Battery	58.4VDC
AGM / Gel Battery	56.4VDC
High DC Recovery Voltage	62 VDC
High DC Cut-off Voltage	63VDC
Solar Charger & AC Charger	
Solar Charger Type	MPPT
Max PV Array Open Circuit Voltage	500VDC
Max PV Array Power	6000W
MPP Range@Operating Voltage	120-450VDC
Niminal PV Voltage	360VDC
Maximum Solar Charge Gurren!	120A
Maximum AC Charge Gurren!	100A
Maximum Charge Gurren!	120A
Physical	
Dimension (L *W*H) mm	119*313.6*422.8
Carton Size (L*W*H) mm	199*393.6*502.8
N/W (kgs)	10.49
G/W (kgs)	11.56
Comunication Interface	USB/R232/BMS/WIFI
Environment	
Humidity	5-95% Relative Humidity (Non-condending)
Operating Temperature	-10 ° C to 50 ° C
Storage Temperature	-15 ° C to 60 ° C

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