

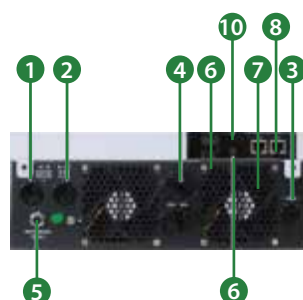
# ORION Series Off-Grid Inverters

## ORION 3.6kW

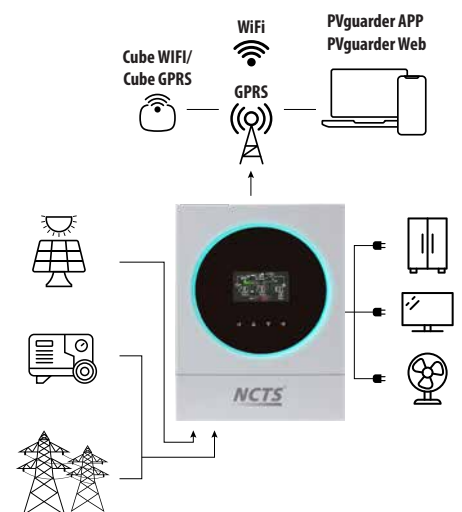
### Product Features

- 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 ranges 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

- |                   |                 |
|-------------------|-----------------|
| 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 |



### System Connections



# ORION 3.6kW

## Off-Grid Inverters

### Technical Specifications

#### Model: NCTS-ORION 3.6KW

Rated Power	3.6KVA/3.6KW
<b>Input</b>	
Voltage	230VAC
Voltage range	170-280 VAC (for PC) or 90-280 VAC (for Home Appliance)
Frequency Range	60/50Hz (Auto sensing)
<b>Output</b>	
AC Voltage Regulation (Bat Mode)	230VAC±5%
Overload Protection	5s@>,130% load; 10s@105%-130% load
Surge Capacity	2*rated power for 5 seconds
Efficiency (Peak)	93%
Transfer Time	10 ms typical (UPS); 20ms typical ( Appliances)
Wave form	Pure sine wave
<b>Battery</b>	
Batery Voltage	24VDC
Bulk Charging Voltage	
Flooded Battery	29.2VDC
AGM / Gel Battery	28.2VDC
High DC Recovery Voltage	32VDC
High DC Cut-off Voltage	33VDC
<b>Solar Charger &amp; AC Charger</b>	
Solar Charger Type	MPPT
Max PV Array Open Circuit Voltage	500VDC
Max PV Array Power	4000W
MPP Range@Operating Voltage	120-450VDC
Niminal PV Voltage	240VDC
Maximum Solar Charge Gurren!	120A
Maximum AC Charge Gurren!	100A
Maximum Charge Gurren!	120A
<b>Physical</b>	
Dimension (L *W*H) mm	119*313.6*422. 8
Carton Size (L*W*H) mm	199*393.6*502. 8
N/W (kgs)	9. 17
G/W (kgs)	10.31
Comunication Interface	USB/R232/BMS/WIFI
<b>Environment</b>	
Humidity	5-95% Relative Humidity (Non-condending)
Operating Temperature	-10 ° C to 50 ° C
Storage Temperature	-15 ° C to60 ° C