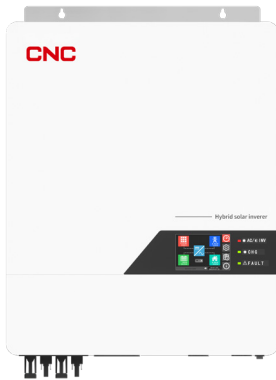


## Photovoltaic Inverter

# YCDPO-III Hybrid Grid Energy Storage Inverter



### General

YCDPO-III hybrid grid energy storage inverter, input voltage range DC60~450V, output AC pure sine wave AC230V 50/60HZ, can drive 4~11KW single-phase load.

### Features

1. YCDPO III series is suitable for on-grid and off-grid applications.
2. Control and monitor your smart system on the move via our monitoring App and website
3. BMS Communication for lithium battery
4. Accessible through a LCD touch screen and through the web. Two outputs for smart load management
5. Built-in anti-dust kit for harsh environment AC overcurrent, AC overvoltage, overtemperature protection
6. Charge from the grid at off-peak time when energy is cheaper and discharge at peak time when energy is more expensive.

### Type designation

YCDPO III - 6000 / 48

Product name	Rated power(W)	Battery charging voltage
YCDPO III	6000	48
YCDPO III	4000 6000 8000 11000	48

## Photovoltaic Inverter

# YCDPO-III Hybrid Grid Energy Storage Inverter

### Technical data

Model	YCDPO III-4000-48	YCDPO III-6000-48	YCDPO III-8000-48	YCDPO III-11000-48
Rated Power(W)	4000VA/4000W	6000VA/6000W	8000VA/8000W	11000VA/11000 W
<b>AC INPUT</b>				
Nominal Voltage(VAC)	230VAC			
Voltage Range(VAC)	170~280VAC / 90~280VAC			
Frequency Range(Hz)	50/60Hz			
<b>AC OUTPUT</b>				
Surge power	8000VA		16000VA	22000VA
Output voltage(VAC)	220VAC/230VAC/240VAC+5%			
Rated frequency	50/60Hz			
Efficiency	93%			
Transfer Time	10ms(For PersonalComputers):20ms (For Home Appliances)			
<b>BATTERY</b>				
Battery Voltage(VDC)	48			
Floating Charge Voltage(VDC)	54			
Overcharge Protection(VDC)	63			
Battery type	Lithium/Lead-acid			
<b>SOLAR CHARGER &amp; AC CHARGER</b>				
Max.PV array open circuit voltage(VDC)	500VDC			
Max.PV array power(W)	5000W	7000W	11000W(5500W*2)	13000W(6500*2)
MPPT input voltage range@operating(VDC)	60~450			
Maximum input current	27A		27A*2 (MAX 40A)	
MPPT tracker/strings	1		2	
Maximum solar charge current	120A		120A	150A
Maximum AC charge current	100A		120A	150A
Maximum charge current	120A		120A	150A
<b>PROTECTION &amp; FEATURE</b>				
AC overcurrent	Yes			
AC overvoltage	Yes			
Over temperature protection	Yes			
Smart load management	Yes			
On Grid	Yes			
Parallel function	6			
CT Anti-backflow function	NO		YES	
<b>ENVIRONMENT</b>				
Humidity	5~90%RH (No Condensing)			
Operating Temperature	-10°C to 50°C			
Altitude	(2000m Derating)			
Dimensions DxWxH(mm)	466*313*136.5		553.6*432.5*147.4	
Net Weight(KG)	9	10.5	18	18.4
<b>COMMUNICATION</b>				
Display	Touch screen			
Interface	Standard:RS232,USB; CAN&RS485; Optional:WiFi,Bluetooth			
Safety standard	EN/IEC62109-1,EN/IEC62109-2			

## Photovoltaic Inverter

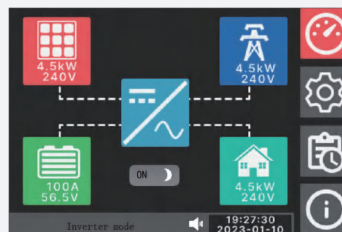
# YCDPO-III Hybrid Grid Energy Storage Inverter

### Schematic diagram of the product connection

#### Product characteristics

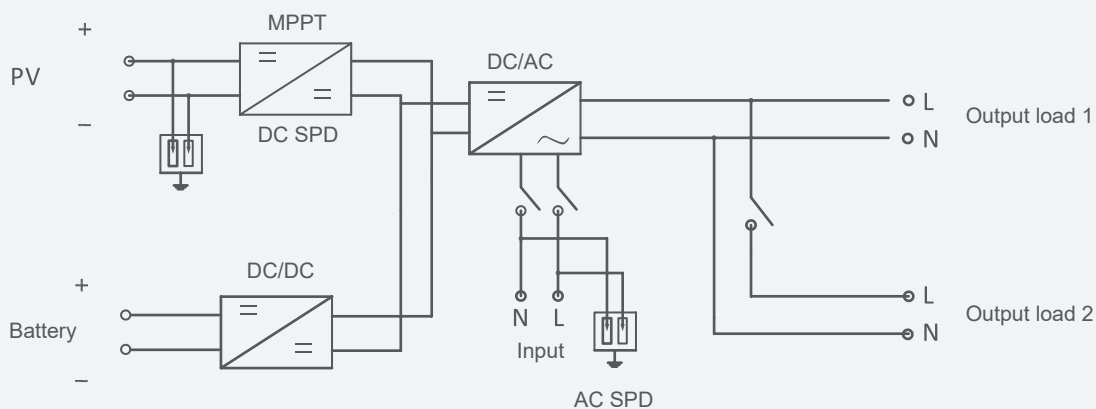


- A: AC OUTPUT
- B: AC INPUT
- C: COM
- D: PV INPUT
- E: ON/OFF
- F: DC INPUT
- G: PARALLEL CONNECTION



LCD touch screen

#### Circuit block diagram



#### Product application diagram

