

# Hybrid Storage Inverter

智慧型雙向逆變主機



iDO-05

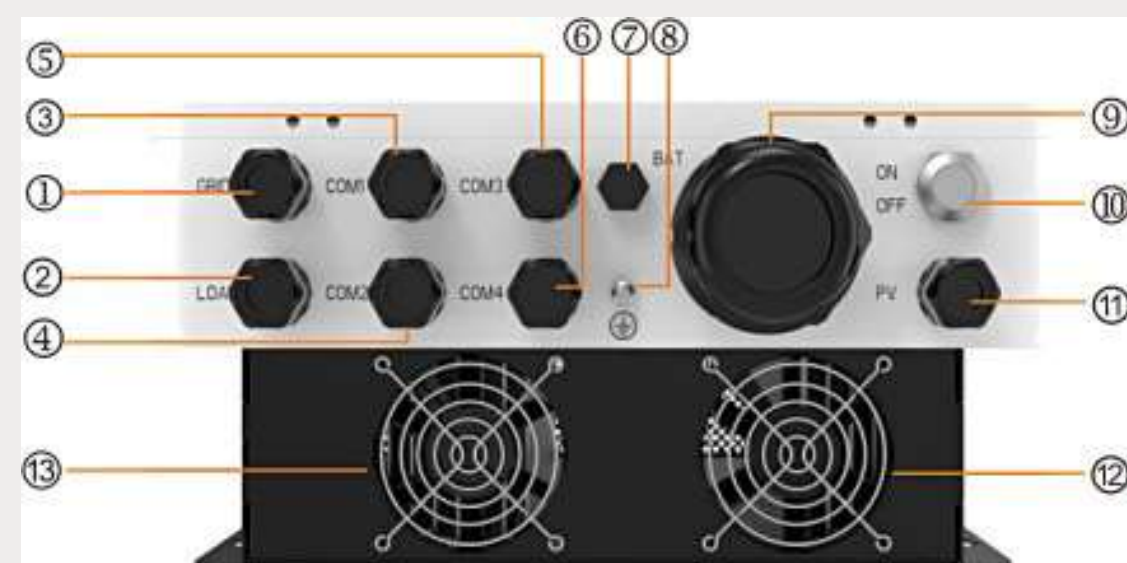
## Functional characteristics

- It has the function of segmented charging and discharging.
- Backflow prevention and grid connection function.
- Insulation resistance and leakage current detection function.
- Working without battery under special conditions.
- Lithium battery activation function, which can be triggered by mains or PV.
- Power saving mode, reduce no-load loss.
- Four charging modes: PV Only, Mains Priority, PV Priority and PV & Mains hybrid charging
- All-round protection design.
- Inverter ON/OFF control by one switch
- Grid-connected mode can be set.

## Design characteristics

- Adopting full-digital double closed loop control, combined with advanced SPWM. technology and pure sine wave output.
- Advanced MPPT technology with efficiency of 99.996.
- LCD screen and three LED indicator lights can clearly indicate the status and data.
- Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

- |                        |                      |
|------------------------|----------------------|
| ① AC Input Port        | ⑩ ON/OFF Switch      |
| ② AC Output Port       | ⑪ PV Port            |
| ③ Communication Port 1 | ⑫ Cooling Fan        |
| ④ Communication Port 2 | ⑬ Cooling Fan        |
| ⑤ Communication Port 3 | ⑭ Light Touch Button |
| ⑥ Communication Port 4 | ⑮ Indicator Light    |
| ⑦ Vent Valve           | ⑯ LCD Screen         |
| ⑧ Grounding Screw Hole | ⑰ Overload Protector |
| ⑨ Battery Input Port   |                      |





# iDO-05

## Grid Input Parameters

Rated Input Voltage	220/230Vac
Input Voltage Range	UPS Mains Mode : (170Vac -280Vac)+/-2%
Frequency	50Hz/ 60Hz (Automatic Detection)
Mains Maximum Charging Current	60A
Maximum Bypass Overload Current	40A
Mains Charging Efficiency	> 95%
Switch Time (bypass and inverter)	10ms (Typical Value)

## Solar Input Parameters

Maximum PV Open-circuit Voltage	500Vdc
PV Working Voltage Range	120 ~ 500Vdc
MPPT CH / MPPT Voltage Range	1 CH / 120 ~ 450Vdc
Maximum PV Input Current	22A
Maximum PV Input Power	6000W
Maximum PV Charging Current	100A

## Battery Input Parameters

Battery Type	Lead-acid Battery or Lithium Battery
Rated Battery Input Voltage	48V ( Minimum Startup Voltage 44V)
Hybrid Charging Maximum Charging Current	100A
Battery Voltage Range	40Vdc ~ 60Vdc (+/- 0.6Vdc)

## AC Output Parameter

Output Voltage Waveform	Pure Sine Wave
Rated Output Voltage (Vac)	230Vac (200/220Vac)
Rated Output Power (VA)/ (W)	5500 (4780/5260) / 5500 (4780/5260)
Peak Power	11000VA
On-load Motor Capacity	4HP
Output Frequency Range(Hz)	50Hz / 60Hz (+/- 0.3Hz)
Maximum Efficiency	> 90%
No-load Loss	Non Energy-saving Mode: $\leq 100W$ Energy-saving Mode: $\leq 50W$ (Manual Setup)

## Basic Parameters

Certificate	CE(IEC 62109 -1) / EN61000
Working Temperature Range	-25°C - 55°C, >45°C Derating
Storage Temperature Range	-25°C - 60°C
Humidity Range	0% to 100%
Waterproof Grade	IP65
Size(L*W*D)	556mm*345mm*182mm
Weight(kg)	20