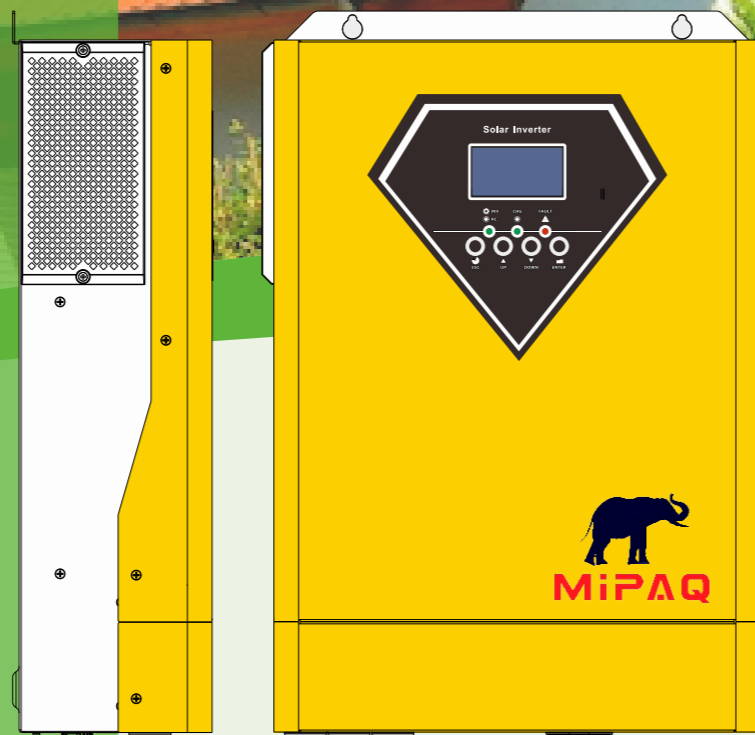


# Solar Inverter

## 3~5KW

- Pure sine wave solar inverter
- Output power factor 1
- High PV input voltage range
- Built-in MPPT solar controller
- Battery equalization function to optimize battery performance and extend lifecycle
- Inverter running without battery
- Built-in anti-dusk kit for harsh environment
- Parallel operation with up to 12 units, support parallel in 1phase/3phase, support wireless parallel(Parallel Type)
- Support multiple output priority: UTL, SOL, SBU, SUB
- WiFi/GPRS remote monitoring(Optional)



Wifi dongle

# Technical Data

MODEL	Diamond 3KW-S -24V	Diamond 5KW-S-48V	Diamond 5KW-P-48V
CAPACITY	3KVA/3KW	5KVA/5KW	5KVA/5KW
Parallel Capability	NO	NO	<b>YES, 12 units</b>
<b>INPUT</b>			
Nominal Voltage	<b>230VAC</b>		
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280VAC(For Home Appliances)		
Frequency	50/60 Hz (Auto sensing)		
<b>OUTPUT</b>			
Nominal Voltage	<b>220/230VAC±5%</b>		
Surge Power	6000VA	10000VA	10000VA
Frequency	50/60 Hz		
Waveform	Pure Sine wave		
Transfer Time	10ms(For personal Computer);20ms(For Home Appliances)		
Peak Efficiency (PV to INV)	97%		
Peak Efficiency (Battery to INV)	93%		
Overload Protection	5s@>=150% load; 10s@110%~150% load		
Crest Factor	3:1		
Admissible Power Factor	0.6~1 (inductive or capacitive)		
<b>BATTERY</b>			
Battery Voltage	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	54VDC	54VDC
OverCharge Protection	33VDC	63VDC	63VDC
Charging Method	CC/CV		
<b>Solar Charger &amp; AC Charger</b>			
Solar Charger TYPE	MPPT		
Max.PV Array Power	4000W	5000W	5000W
Max. PV Array Open Circuit Voltage	500VDC		
PV Array MPPT Voltage Range	120VDC~450VDC		
Max. Solar Input Current	15A	18A	18A
Max. Solar Charge Current	100A	80A	80A
Max. AC Charge Current	60A	60A	60A
Max. Charge Current	100A	80A	80A
<b>PHYSICAL</b>			
Dimensions, D x W x H(mm)	448x295x105		
Package Dimensions, D x W x H(mm)	565x380x190		
Net Weight (Kg)	9	10	10
Communication Interface	USB/RS232/Dry-contact		
<b>ENVIRONMENT</b>			
Operating Temperature Range	-10°C to 50°C		
Storage temperature	-15°C~ 60°C		
Humidity	5% to 95% Relative Humidity (Non-condensing)		

Product specifications are subject to change without further notice.