

FlinQuantum MPPT Solar Inverter

Built-in Dust Filter | Wide DC Input Range | 5 Year Warranty



- → Pure Sine Wave solar inverter with 93% peak efficiency
- → Light weight, Slim and has unique ventilation design with IP41 rating
- → Connect up-to 9 inverters in parallel, power up-to 45kW of load & get 54kW of PV capacity
- → Can be used without batteries
- Advanced monitoring software included
- → Double Surge Power Capacity
- ★ Auto restart function and cold start functions

Direct Power from Solar

FlinQuantum system allows you to power load directly from solar power during the day time keeping grid and/or battery power only for back-up.

Wide PV input & MPPT range

FlinQuantum solar inverter comes with high PV input capacity of 6000W. Wide MPPT range ($120 \sim 450 \text{ VDC}$) of the built-in solar charge controller offers more flexibility to the users to use any size of solar panels and helps reducing installation costs.

Unique Ventilation Design

FlinQuantum is IP41 rated. Inveter's ventilation design protects inverter from solid bodies of thickness, 1mm and greater, eg. thin tools & fine wires from falling inside. It also provides protection against vertically falling drops of water or condensation.

Comprehensive Display

FlinQuantum is designed to offer great flexibility in user operation. Build-in LCD screen & menu buttons allow you to customize voltage range, charging priority and battery charging current. You can also view operating status and power information on the LCD screen.

5 Year Warranty Terms

Only Flin inverter model that comes with our 5 year warranty. For more details contact us.



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Specifications of FlinQuantum MPPT Solar Inverter

Rated Output Power 5000 VA / 5000 W INPUT Voltage 230 VAC Selectable Voltage Range 90-280 VAC (For Personal Computer); 90-280 VAC (For Home Appliances) Frequency Range 60 Hz/50 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Battery Mode) Surge Capacity 10000 VA for 10 seconds Efficiency (Peak) 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC Maximum PV Array Maximum PV Array Maximum PV Array	MODEL	FlinQuantum MPPT 5kW-48V Solar Inverter	
Voltage 230 VAC Selectable Voltage Range 170-280 VAC (For Personal Computer); 90-280 VAC (For Home Appliances) Frequency Range 60 Hz/50 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Battery Mode) 230 VAC ± 5% Surge Capacity 10000 VA for 10 seconds Efficiency (Peak) 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Rated Output Power	5000 VA / 5000 W	
Selectable Voltage Range 170-280 VAC (For Personal Computer); 90-280 VAC (For Home Appliances) Frequency Range 60 Hz/50 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Battery Mode) Surge Capacity 10000 VA for 10 seconds Efficiency (Peak) 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage Overcharge Protection SOLAR CHARGER Maximum PV Array Power MPPT Range Maximum PV Array	INPUT		
Frequency Range 60 Hz/50 Hz (Auto sensing) OUTPUT AC Voltage Regulation (Battery Mode) Surge Capacity 10000 VA for 10 seconds Efficiency (Peak) 93% Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Voltage	230 VAC	
AC Voltage Regulation (Battery Mode) Surge Capacity Efficiency (Peak) Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage Floating Charge Voltage Overcharge Protection SOLAR CHARGER Maximum PV Array Power MPPT Range Maximum PV Array	Selectable Voltage Range		
AC Voltage Regulation (Battery Mode) Surge Capacity Efficiency (Peak) Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage Floating Charge Voltage Overcharge Protection SOLAR CHARGER Maximum PV Array Power MPPT Range Maximum PV Array	Frequency Range	60 Hz/50 Hz (Auto sensing)	
(Battery Mode) Surge Capacity Efficiency (Peak) Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage Floating Charge Voltage Overcharge Protection SOLAR CHARGER Maximum PV Array Power Maximum PV Array	OUTPUT		
Efficiency (Peak) Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	5 5	230 VAC ± 5%	
Transfer Time 10 ms (For Personal Computers); 20 ms (For Appliances) Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Surge Capacity	10000 VA for 10 seconds	
Waveform Pure Sine Wave BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Efficiency (Peak)	93%	
BATTERY Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Transfer Time	10 ms (For Personal Computers); 20 ms (For Appliances)	
Battery Voltage 48 VDC Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Waveform	Pure Sine Wave	
Floating Charge Voltage 54 VDC Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	BATTERY		
Overcharge Protection 63 VDC SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Battery Voltage	48 VDC	
SOLAR CHARGER Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC Maximum PV Array	Floating Charge Voltage	54 VDC	
Maximum PV Array Power 6000 W Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC	Overcharge Protection	63 VDC	
Solar Charger Type MPPT MPPT Range 120 ~ 450 VDC Maximum PV Array	SOLAR CHARGER		
MPPT Range 120 ~ 450 VDC	Maximum PV Array Power	6000 W	
Maximum PV Array	Solar Charger Type	MPPT	
Maximum PV Array	MPPT Range	120 ~ 450 VDC	
Open Circuit Voltage 450 VDC	Maximum PV Array Open Circuit Voltage	450 VDC	
Maximum Solar Charge Current 80 A	Maximum Solar Charge Current	80 A	
Maximum AC Charge Current 80 A	Maximum AC Charge Current	80 A	
PHYSICAL	PHYSICAL		
Dimension, D x W x H (mm) 125 x 378 x 516	Dimension, D x W x H (mm)	125 x 378 x 516	
Net Weight (kgs) 16	Net Weight (kgs)	16	
Communication Interface USB / RS232	Communication Interface	USB / RS232	
Parallel Functionality Connect up-to 9 inverters in parallel	Parallel Functionality	Connect up-to 9 inverters in parallel	
OPERATING ENIVIRONMENT			
Humidity 5% to 95% Relative Humidity(Non-condensing)	Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature -10°C - 50°C	Operating Temperature	-10°C - 50°C	
Storage Temperature -15°C - 60°C	Storage Temperature	-15°C - 60°C	

^{*}Product specifications are subject to change without further notice