

HCPO1 PV Optimizer

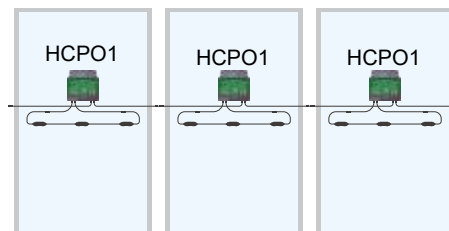
Features&Benefits:

- ◆ 3% ~ 25% optimization, retrieve power generation loss;
- ◆ $\Delta < 10^{\circ}\text{C}$ Anti-Hotspot, more safe and durable;
- ◆ Applies to all types of modules, Optimization +Voltage Limiting +Anti-Hotspot;
- ◆ Based on power optimization chip, eliminate panel or cell level mismatch;
- ◆ Solve the current mismatch issues caused by shading gradients, aging variations, temperature gradients, soiling gradients, etc;
- ◆ Optimize power generation, lower LCOE, improve solar system reliability, extend the service life of module;
- ◆ TUV/CE Certification;



CHARACTERISTIC PARAMETERS			
Product Model	HCPO1		
input	Maximum Input Power	700W	
	Maximum Input Voltage	80V	
	MPPT Voltage Range	12~80V	
	Maximum input Current	15A	
	Over-temperature Protection	160 $^{\circ}\text{C}$	
Conversion Efficiency	Peak Conversion Efficiency	99.50%	
	Power Consumption @5A	0.9W	
	Power Consumption @8A	1.4W	
	Power Consumption @12A	2.9W	
	Power Consumption @15A	3.8W	
Specifications	Dimensions(L*W*H)	105*105*22mm	
	Weight	600g	
	Cable		4.0mm ²
			Input Wire 70cm*2Pcs
			Output Wire 100cm*2Pcs
	Connector	MC4 or compatible MC4	
	Operating Temperature Range	-40 $^{\circ}\text{C}$ ~+85 $^{\circ}\text{C}$	
Protection Degree	IP68		
Design Standard	Designed Life	25 Years	
	Quality Commitment	10 Years	
Function	Standard Features	Optimization Anti-Hotspot	

Module Assembly Diagram



HCPS1 PV Shutdown

Ratings:

- ◇ Maximum DC Voltage: 80V
- ◇ Rated DC Current: 16A
- ◇ Maximum System Voltage: 1500VDC
- ◇ Protection Degree: IP68
- ◇ Ambient Temperature : -40°C~ +85°C



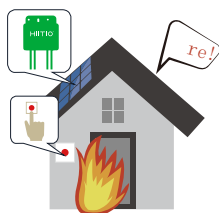
Approvals/Standards:

- ◇ NEC 2020 690.12
- ◇ TUV
- ◇ CSA

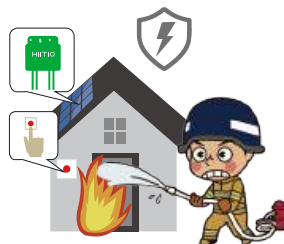
Features&Benefits:

- ◇ Low internal resistance MOSFET switch, low temperature rise, no arc pulling and no sputtering;
- ◇ PLC communication technology, no peripheral signal cable;
- ◇ MINI type shell design, frame snap-on insertion, easy installation;
- ◇ Reverse polarity protection, compatible with short circuit, reverse irrigation design, high reliability;
- ◇ A low-cost, cost-effective, 25-year life design.
- ◇ HCPS1 and HCPT1 work together.

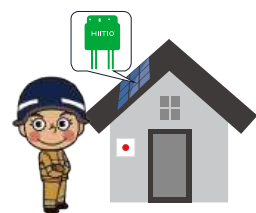
CHARACTERISTIC PARAMETERS	
Product Model	HCPS1
Length of Cable	Input Wire 100 cm * 2Pcs Output Wire 70 cm* 2Pcs
RSS system voltage	1000V/1500V (Optional)
Maximum input voltage	80V(Io=0)
Maximum input current	20A
Maximum input power	750W
Start-up voltage	12V
Rated current	16A
Rated power	600W
Mode of communication	PLC
Degree of protection	IP68
Storage and operating temperature	-40°C ~ 85°C
Connector	MC4 or compatible MC4
Execution standards	UL 1741/NEC 2017 690.12



Manually turn off the transmitter power and inverter switch.



Firefighter can work now, no life risk put out fire using water.

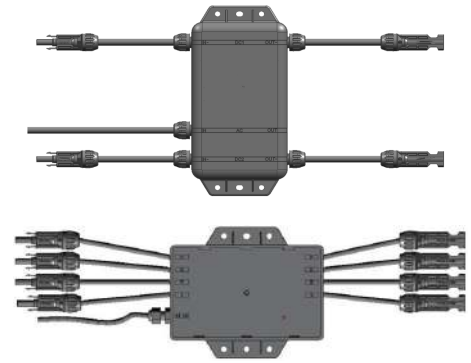


Fire put out,house is safe now.

HCPT1 PV shutdown controller

Product description

This product acts on the switching device at the component level and defaults to the off state. When receiving the transmitted signal of the incoming controller, the component string channel is opened and the inverter operates normally; When the transmit signal is not received, the MOSFET is quickly turned off, and the component string channel is also closed, so that the system high voltage is reduced to less than 30V within 30S to ensure the safety of fire fighting and installation and maintenance personnel.



Transmitter	HCPT1-2	HCPT1-4
Working line	2 road	4 road
Operating voltage range	100V-240V 50-60Hz	
Waterproof rating	IP67	
Dimensions (length, width and height)	169.5mm*146.5mm*35mm	
Weight	520g	
Operating temperature range	-40°C-+65°C	
PLC communication distance	300m	
Connector	MC4 or compatible MC4 compatible	

HCPT1-2 Transmitter can control 2 sets of string photovoltaic modules,
 HCPT1-4 Transmitter can control 4 sets of string photovoltaic modules.

