HITIO

HS4-A-O PV smart optimization shutdown



Basic Information	
intelligent optimization shut-off	
Power	600W/800W
Model	HS4-A-O
warranty period	10years
lifetime	25 years
Certificate	CE 🖉

HS4-A-M PV smart gateway



Basic Information intelligent gateway Communication protocol Zigbee Model HS4-A-M warranty period 3years lifetime 10 years Certificate



🗟 دو 🗟	EN 62368, EN 300328, EN301489-1, EN301489-17, EN62311, EN55032, EN55035, EN61000-3-2, EN61000-3-3
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Product specification

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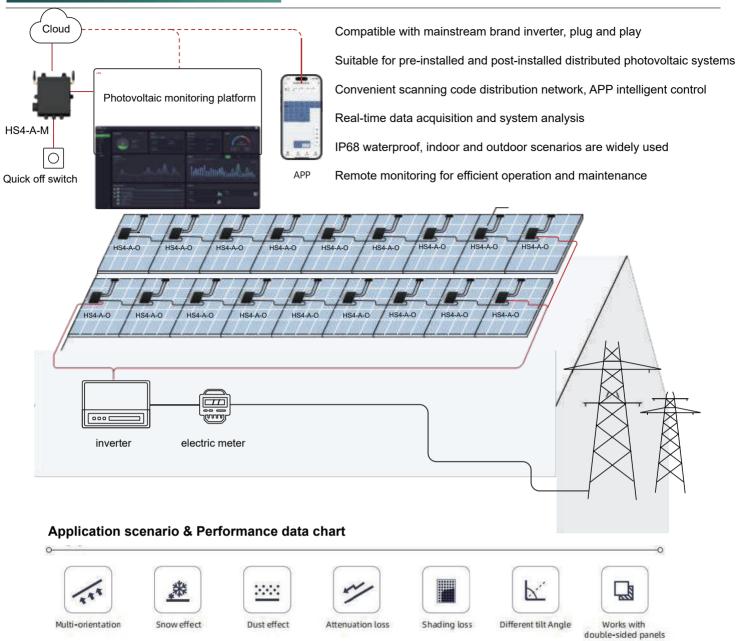
FIGUUCE	specification		Float
Product Mo	del	HS4-A-O	Produc
	Maximum efficiency	≥99.5%	
Efficiency	Euro-area efficiency	≥99.0%	commu
Efficiency	North American efficiency	≥99.1%	
	Efficiency in China	≥99.1%	Commu
	Maximum input power	800W	the quick
	maximum input voltage	70 V	
DC Input	Maximum input current	15 A	Commu
	MPPT voltage range	10~70 V	the clou
	Starting voltage	15 V	
	Output power	0~800W	Extend
DC Output	Output voltage	0~70 V	interfac
	Maximum output current	18 A	
	Bypass cut-off function	Yes	Interact
	Automatic shutdown function	Yes	
	Manual shutdown function	Yes	
	Dc overvoltage protection	Yes	
Function	Dc overload protection	Yes	Genera
	Polarity reverse protection	Yes	Parame
	Short-circuit protection	Yes	
	Wireless data acquisition	Yes	
Detection	Voltage	0.01 V	Cartifica
Precision	Circuit	0.01 A	Certifica
	Size	95mm*129mm*56mm	HS4-
	Weight	≤1000 g	Web: APP:
	Level of protection	IP68	
	System voltage	1100 V	
	Data reporting cycle	1 minute	
	Wireless distance	≤100m indoor ≤30m outdoor	
General	Dc input/output terminals	MC4	
Parameter	Input DC line length	≥0.12m	
	Output DC line length	≥1.3m	
	Operating temperature	-45°C~85°C	
	Storage temperature	-40°C~70°C	
	Operating humidity	0%~100%	
	Working altitude	2000 m	
	Power supply mode	DC power supply	
	Turn-off time	10s	
	Way to install	Fixed bracket/fixed PV p	anel frame

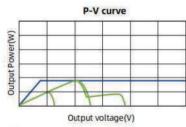
Product Model		HS4-A-M
	Communication protocol	Zigbee
communication	Wireless distance	100m outdoor 30m indoor
	Maximum number of connect	ed 30
Communicate with the quick break button	Control mode	10
	Wired Internet access	RJ 45×1 100Mbps
Communicate with	Wireless Internet access	Wifi 802.11b/g/n 2.4G
the cloud	Number of antennas	2
	Sample interval	1 minute
Extended commun interface	nication _{RS485}	COM×1, 9600bps, ModBus-RTU
	Reset button	Self-reset button*1
Interaction	pilot lamp	LED pilot lamp*2
	APP	Monitoring APP
	Operating temperature	-20°C~55°C
	Size	181mm*163mm*51mm (L*W*H)
General	Weight	≤200g
Parameter	Way to install	Wall mounting
	Level of protection	IP65
	Power supply mode	DC 12V power supply
Certificate		CE ROSH

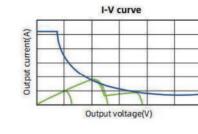
HS4-A-O and HS4-A-M work together Web: https://solar-eu.solarpilot.com/ APP:google play or apple store /solarpiot

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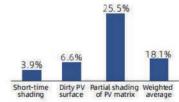
SMART PV











Usage Scenario



Household rooftop photovoltaic power station

Photovoltaic carport power station

Industrial and commercial park building rooftop photovoltaic power station



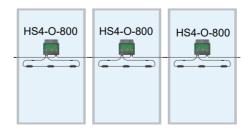
HS4-O-800 PV Optimizer

Features&Benefits:

- 3% ~ 25% optimization, retrieve power generation loss; ٠
- Δ < 10[°]C Anti-Hotspot, more safe and durable; ٠
- Applies to all types of modules, Optimization +Voltage Limiting +Anti-Hotspot; ٠
- Based on power optimization chip, eliminate panel or cell level mismatch; ٠
- 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;
- CE Certification;

CHARACTERISTIC PARAMETERS		
Product Model	HS4-O-800	
	Maximum Input Power	800W
input	operating voltage range	14~65V
	MPPT Voltage Range	14~65V
	Maximum input Current	17A
	Over-temperature Protection	160 ℃
	Peak Conversion Efficiency	99.2%
	Power Consumption @26V	0.8W
Conversion Efficiency	Power Consumption @36V	1.3W
	Power Consumption @46V	1.8W
	Dimensions(L*W*H)	107*105*22mm
	Weight	505g
Onecifications	Cable	4.0mm ²
Specifications	Connector	MC4 or compatible MC4
	Operating Temperature Range	-40°C~+85°C
	Protection Degree	IP68
Design Standard	Designed Life	25 Years
Design Standard	Quality Commitment	10 Years
Functiom	Standard Features	Optimization Anti-Hotspot

Module Assembly Diagram





HS4-A-F PV Shutdown Specifications

Ratings:

- ♦ Maximum DC Voltage: 10~80V
- \diamond Rated DC Current: 16A
- \diamond Maximum System Voltage: 1500VDC
- \Diamond Protection Degree: IP68
- \diamond Ambient Temperature : -40°C~ +65°C

Approvals/Standards:

- ⇔ce
- ◇NEC 2020 690.12
- ⇔SunSpec

Features&Benefits:

- $\diamond\,$ Low internal resistance MOSFET switch, low temperature rise, no arc pulling and no sputtering;
- ♦ PLC communication technology, no peripheral signal cable;
- $\diamond\,$ 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.
- ♦ HS4-A-F and HCPT1 work together

CHARACTERISTIC PARAMETERS	
Product Model	HS4-A-F
Mode of communication	PLC
Maximum input current	20A
Maximum input voltage	80V
Maximum power	750W
Maximum system voltage	1500V (Optional)
Rated power	600W
Rated current	16A
Start-up voltage	12V
Degree of protection	IP68
operating temperature	-40℃ ~65℃
Connector	MC4 or compatible MC4
Size(L×W×H mm)	106*105*22
Execution standards	NEC 2017/2020 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.



HCPS1 PV Shutdown Specifications

Ratings:

- ♦ Maximum DC Voltage: 80V
- ♦ Rated DC Current: 16A
- \diamond Maximum System Voltage: 1500VDC
- \Diamond Protection Degree: IP68
- \diamond Ambient Temperature : -40°C~ +65°C

Approvals/Standards:

- ♦ NEC 2020 690.12
- ⇔τυν
- \diamond CSA

Features&Benefits:

- ♦ Low internal resistance MOSFET switch, low temperature rise, no arc pulling and no sputtering;
- ◇ PLC communication technology, no peripheral signal cable;
- $\diamond\,$ 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	HSPS1
Mode of communication	PLC
Maximum input current	20A
Maximum input voltage	80V
Maximum power	750W
Maximum system voltage	1500V (Optional)
Rated power	600W
Rated current	16A
Start-up voltage	12V
Degree of protection	IP68
operating temperature	-40℃ ~65℃
Connector	MC4 or compatible MC4
Size(L×W×H mm)	143*35.5*17.5
Weight (g)	405
Execution standards	NEC 2017/2020 690.12



Manually turn off the transmitter power and inverter switch.



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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	HCPT1-4
Photovoltaic shutdown controller	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℃
PLC communication distance	300m
Connector	MC4 or compatible MC4 compatible

HCPT1-4 Photovoltaic shutdown controller can control 4 sets of string photovoltaic modules.

