

Smart Optimizer SUNGO iOPT 800W

Optimize Power Generation
Intelligent Management

Features

- Module-level MPPT, fearless of shading, power generation increased by **5%-30%**
- Module-level rapid shutdown, ensuring fire and maintenance safety
- Module-level data intelligent monitoring, fine management
- Fully utilize roof space to achieve system maximization
- Suitable for retrofitting existing power plants and installing new photovoltaic power plants
- 12-year standard warranty, high stability, service life over 25 years

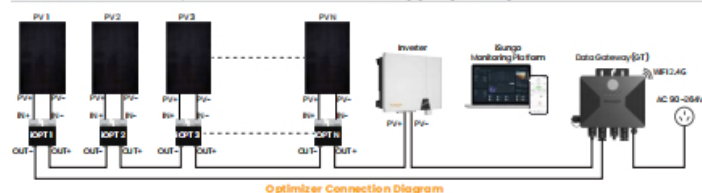


Optimizer Technical Parameters

Model	SUNGO iOPT 800W
DC Input	
Max input power	800W
Max voltage	70V
MPPT voltage range	10-60V
Max continuous input current	28A
Max input short-circuit current	33A
High self-consumption	0W
DC output	
Output voltage	0-60V
Max continuous output current	28A
Max output power	700W
Max system voltage	1500V
DC output during shutdown	110V
Output voltage (Without iOPT GT)	
Efficiency	99.7%
Peak MPPT efficiency	99.7%
Communication	
Communication Method	R.C.
Communication parameter	PV Voltage, Output Voltage, Output Current, Output Power, Temperature State
Advanced protection	
Input overvoltage protection	175V
Output overcurrent protection	125A
Output overvoltage protection	600W
High temperature protection	140°C
General data	
Dimensions (W*H*H)	160*235*75mm
Input/output cable length	1m/200 / 1m/100 / 1m/200mm
Input/output cable size	4mm ² (EIAWG) / 4mm ² (EIAWG)
Terminal	MC4(Compatible)
Protection rating	IP68
Relative humidity	0-100%RH
Operating temperature range	-40~+85°C
Cooling	Natural cooling

Data Gateway Technical Parameters

Model	SUNGO GT
Match with	SUNGO iOPT 800W
AC Input parameters	
AC Input voltage range	90-265V
AC Input frequency	50/60Hz
Maximum AC Input power	5W
Maximum AC Input current	0.3A@50VAC
PV Input parameters	
Terminal	MC4(Compatible)
Maximum system voltage	1500V
Max input string	2
Max current of each string	28A
Max module size per string	30
Communication Method	R.C.
Communication with optimizer	2.4GHz 484.1 / 484.85
Communication with up per machine	
Input/Shutdown	
Input state	1 OFF when AC is not connected, 0, On when AC is connected
Input state	Press the button once until the running light is on
Switch-on	
Switch-on time	<2s
Shut-down	
Shut-down time	1. Press the button once until the indicator lights up
Shut-down	2. Controller & C power off, all indicator lights off
Shut-down	<2s
Electromagnetic compatibility (EMC)	IEC 61000-4-4, IEC 61000-6-2, IEC 61000-6-3
Safety	IEC 60950-1
Note	Yes
Installation specification	
Dimension (W*H*H)	140*235*75mm
AC Input cable length	1m
Protection level	IP62
Working temperature range	-40~+85°C
Storage temperature range	-40~+85°C
Cooling	Natural cooling
Form of installation	Wall hanging/hanging, screw locking



Optimizer Connection Diagram