

# Smart Optimizer & Data Gateway SUNGO iOPT 800W & SUNGO GTC

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**Data Gateway (GTC)**

## Features

### Optimize Power Generation

Module-level MPPT ensures optimal performance regardless of shadows, malfunction, etc, resulting in a remarkable power generation increase of 5%-30%

### Intelligent Management

Module-level data intelligent monitoring. One App to Manage the PV power plant

### Safety

Module-level automatic rapid shutdown, ensuring fire and maintenance safety

### Flexible Use

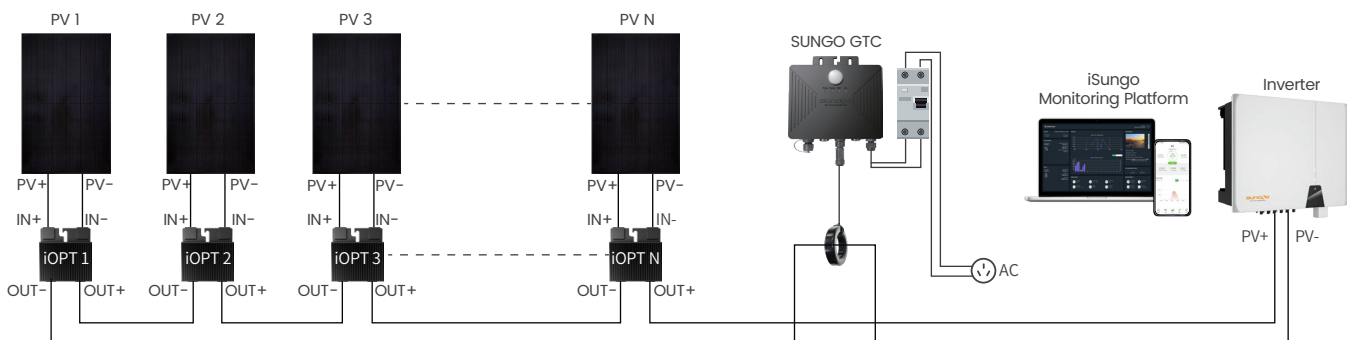
Matching mainstream PV modules and various inverters for worry-free installation of PV power plants in operation and under construction

### Advanced MPPT Algorithm

The MPPT algorithm is not only advanced but also boasts rapid calculation speeds, resulting in efficiency levels exceeding 99.5% and peaking at 99.7%

### Quality Warranty

12-year standard warranty, high stability, service life over 25 years



Connection Diagram

## Optimizer Technical Parameters

Model	SUNGO iOPT 800W
<b>DC Input</b>	
Max input power	800W
Max voltage	70V
MPPT voltage range	12~60V
Max continuous input current	21A
Max input short-circuits current	23A
Night self-consumption	0W
<b>DC Output</b>	
Output voltage	0~60V
Max continuous output current	21A
Max output power	780W
Max system voltage	1500V
<b>DC Output During Shutdown</b>	
Output voltage (without SUNGO GT)	1±0.1V
<b>Efficiency</b>	
Peak MPPT efficiency	≥99.7%
<b>Communication</b>	
Communication method	PLC
Communication parameter	PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State
<b>Advanced Protection</b>	
Input overvoltage protection	>75V
Output overcurrent protection	>22A
Output overload protection	>800W
High temperature protection	>110℃
<b>General Data</b>	
Dimensions (W*D*H)	116*31.5*123mm
Weight	0.865kg
Input/output cable length	IN+ 200 / IN- 1100 / OUT+ 750 / IN- 750mm
Input/output cable size	4mm <sup>2</sup> (12AWG) / 4mm <sup>2</sup> (12AWG)
Terminals	MC4(Compatible)
Protection rating	IP68
Relative humidity	0~100%RH
Operating temperature range	-40~+65℃
Cooling	Natural cooling
Certification	CE
Packaging	28pcs/CTN 840pcs/pallet

## Data Gateway Technical Parameters

Model	SUNGO GTC
Match with	SUNGO iOPT 800W/SUNGO RSDi-2
<b>AC Input Parameters</b>	
AC input voltage range	90~264V
AC Input frequency	50/60Hz
Maximum AC input power	5W
Maximum AC input current	0.1A@90Vac
<b>PV Input Parameters</b>	
Terminals	MC4(Compatible)
Maximum system voltage	1500V
Nos of input strings	5
Maximum number of iOPT	100
Maximum number of RSDi-2	50
<b>Communication Method</b>	
Communication with optimizer	PLC
Communication with upper machine	2.4GHz Wi-Fi / RS485
<b>Rapid Shutdown</b>	
Initial state	Operate
Switch-on	Press the button once until the Running indicator lights up
Switch-on time	<5s
Shutdown	1. Press the button once until the RSD indicator lights up 2. Controller AC power off, all indicator lights off
Shutdown time	<30s
<b>Standards</b>	
Electromagnetic compatibility (EMC)	IEC61000-6-1, IEC61000-6-2, IEC61000-6-3
Safety	IEC62109-1
RoHs	Yes
<b>Installation Specification</b>	
Dimension (W*D*H)	140*33.5*175mm
Weight	0.88kg
AC input cable length	1m
Protection level	IP67
Working temperature range	-40~+70℃
Cooling	Natural cooling
Form of installation	Wall hanging/holding, screw locking
Certification	CE
Packaging	8pcs/CTN, 6ctn/layer, total 8 layers, 384pcs/pallet