Global Headquarters

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SUNGO Energy Technology B.V.

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Optimizer&Energy Storage Production Base

KONKA&SUNGO Smart Energy (Zhejiang) Co., Ltd.

Add: Building 3#, Small and Micro Industrial Park, No. 69 Xingmei Avenue, Chengtan Street, Xinchang County, Shaoxing City, Zhejiang Province, China

Sungo Energy UK

Add: 60 Windsor Avenue, London SW19 2RR, United Kingdom

Sungo Energy DE

SUNGO Energietechnik GmbH Add: Berliner Str. 300b, 63065 Offenbach am Main, Germany

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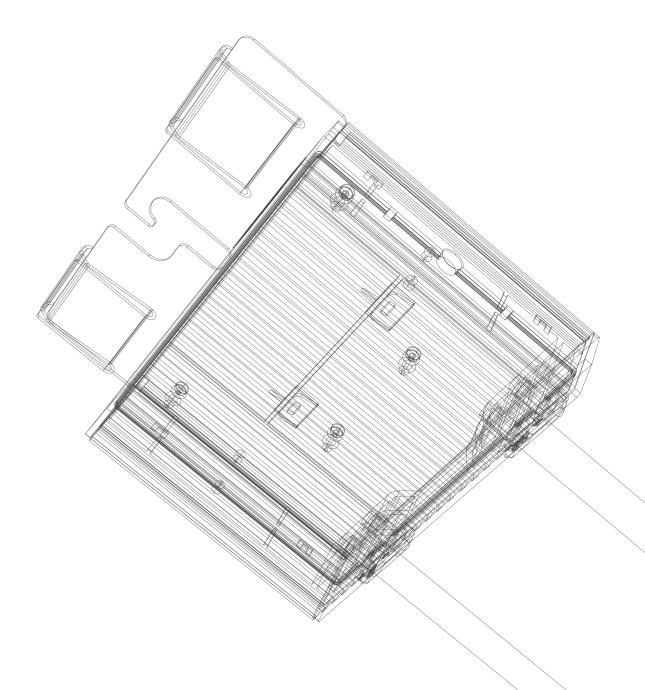
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Smart Optimizer Product Brochure

GO WITH SUNSHINE, ALWAYS OPTIMIZED



SUNGO Energy

SUNGO Energy Technology focuses on the R&D and application of user-side solar+storage products, and is committed to providing global clients with excellent performance, leading-edge solar+storage products and comprehensive energy solutions. We have wide range product lines, including smart optimizers, and lithium-ion battery energy storage systems, which covers the entire industrial chain to meet users' requirements. In the future, we will continue to increase investment in R&D, continuously improve our competitive advantages, and provide global clients with products which are more integrated, easier to install and maintain.

Your green energy keep optimizing 🗐 —



1.5 million

Annual production capacity of smart optimizers



3GW

Optimizer installed capacity



15 years

Industry experience



More than 15% Average gain per customer



30% Percentage of R&D staff



Optimizer Application Scenarios



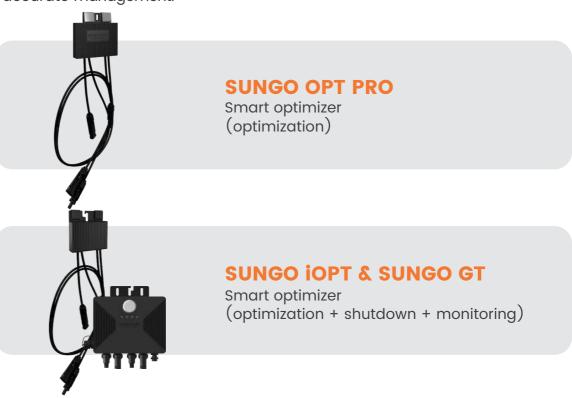






Optimizer Product Solutions

SUNGO Energy has been committed to the application and popularization of PV intelligent optimizer to produce more clean energy for users. The autonomously R & D optimizer products integrate optimization, rapid shutdown and module-level monitoring functions, which can effectively help PV systems to realize multi-generation and multi-installation and accurate management.





SUNGO IOPT & SUNGO GTC

Smart optimizer (optimization + shutdown + monitoring)



iSungo

Smart Energy Management Platform

Residential and C & I Scenario Solutions **SUNGO OPT PRO**

Optimize Power Generation Fearless of Shading

Features



Module-level MPPT, no more worries of shading, power generation increased up to 30%



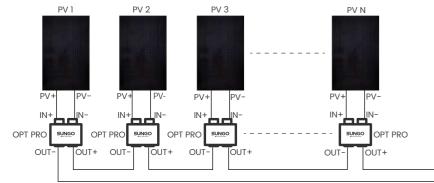
Convenient installation, wide range of adaptability, suitable for operating power plant renovation and new power plant installation



Compatible with all modules on the market and over 99% of inverters



25 years products replacement warranty









Technical Parameters

Model	SUNGO OPT PRO
DC Input	
Maximum input power	800W
Maximum operating voltage	70V
MPPT voltage range	7~60V
Maximumcontinuous input current	21A
Maximum input short-circuit current	23A
Night self-consumption	0W
DC Output	
Rated output voltage	58V
Maximum continuous output current	21A
Maximum output power	780W
Maximum system voltage	1500V
Efficiency	
Peak efficiency	99.7%
Power loss @5A	0.9W
Power loss @8A	1.4W
Power loss @12A	2.9W
Power loss @15A	4.5W
Power loss @20A	7.2W
General Data	
Dimensions (W*D*H)	103*21.3*105.3mm
Weight	0.65Kg
Input/output cable length	IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm
Input/output cable size	4mm²(12AWG) / 4mm²(12AWG)
Terminals	MC4(compatible)
Protection rating	IP67/NEMA6
Relative humidity	0-100%RH
Operating temperature range	-40~+60°C
Cooling	Natural cooling
Overvoltage category	OVC II
Maximum altitude	≤4000m
Certification	CE
EMC	EN IEC 61000-6-1:2019EN IEC 61000-6-2:2019EN IEC 61000-6-3:2021ENIEC 61000-6-4:2019
Packaging	20pcs/CTN 1080pcs/pallets(20GP)

Residential Scenario Solutions SUNGO iOPT & SUNGO GT



Features



Module-level MPPT, no more worries of shading, power generation increased up to 30%



Module-level rapid shutdown, ensuring fire and maintenance safety



Module-level data intelligent monitoring and accurate management



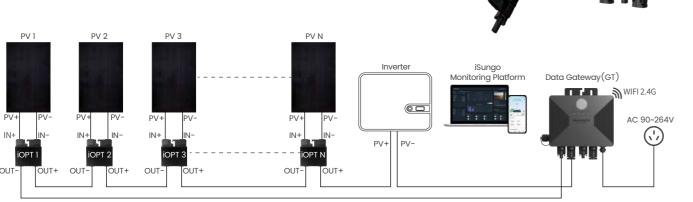
Fully utilize roof space to achieve system maximization



Convenient installation, wide range of adaptability, suitable for operating power plant renovation and new power plant installation



25 years products replacement warranty



Oata Gateway
(GT)

Optimizer Technical Parameters

DC Input Maximum input power 800W Maximum voltage 70V	<u> </u>	
Maximum input power Maximum voltage Maximum voltage Moximum continuous input current Maximum input short-circuits current Maximum input short-circuits current Night self-consumption Coutput Utput voltage Maximum continuous output current Maximum continuous output current Cutput voltage Maximum continuous output current Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method PLC Communication Method PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection Output overcoad protection PV Voltage, Output Voltage, Output Voltage Output Output Output Output Output Overoload Potection Input Overoload protection Seneral Data Dimensions (W*D*H) Dimensions (W*D*H) Ille*31.5*123mm Voltage Output Cable length IN+200 / IN-1100 / OUT+750 / OUT-750mm Input/output cable length IN+200 / IN-1100 / OUT+750 / OUT-750mm Input/output cable size Imminials MC4(Compatible)	Model	SUNGO IOPT 800W
Maximum voltage ange MPPT voltage range Maximum continuous input current Maximum input short-circuits current Maximum input short-circuits current Maximum input short-circuits current Night self-consumption DC Output Output Output voltage O-60V Maximum continuous output current Maximum output power Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Method Communication Method Communication Method PIC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection Output overcurrent protection Output overcurrent protection Pill temperature protection Value overcurrent protection Nill temperature protection Pill temperature protection Nill temperatur	•	
MPPT voltage range Maximum continuous input current Maximum input short-circuits current Night self-consumption DC Output Output voltage Maximum continuous output current Maximum continuous output current Maximum continuous output current Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overvourage protection PV Voltage, Output Voltage, Output Voltage PV Voltage PV Voltage PV Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection Output overcourage protection PV Voltage, Output Voltage, Output Voltage, Output Output Power, Temperature, State Advanced Protection Input overvoltage protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Voltage, Output Voltage, Output Output Power, Temperature, State PV Voltage, Output Voltage,	Maximum input power	800W
Maximum continuous input current Maximum input short-circuits current Might self-consumption DC Output Output voltage Maximum continuous output current Maximum output power Maximum system voltage Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection PV Voltage, Output Voltage, Output Voltage, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Output Power, Temperature, State Advanced Protection PV Voltage, Output Voltage, Output Out	Maximum voltage	70V
Maximum input short-circuits current 23A Night self-consumption 0W DC Output 0-60V Output voltage 0-60V Maximum continuous output current 21A Maximum output power 780W Maximum system voltage 1500V DC Output During Shutdown 1500V Output voltage (without SUNGO GT) 1±0.IV Efficiency 299.7% Peak MPPT efficiency 299.7% Communication PLC Communication Method PLC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection >75V Output overloade protection >22A Output overload protection >800W High temperature protection >10C General Data 116*31.5*123mm Dimensions (W*D*H) 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm*(12AWG) / 4mm** (12AWG) Terminols MC4(Compatible) Protection rating<	MPPT voltage range	12~60V
Night self-consumption DC Output Output voltage Maximum continuous output current Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overcurrent protection High temperature protection Seneral Data Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals FVCCommunication Input (Compatible) Input/output cable size Input/output cable size Ierminals Input/output cable size Ierminals Input (Compatible) Inposition Seneral Data Input/output cable size Ierminals	Maximum continuous input current	21A
Output voltage 0-60V Maximum continuous output current 21A Maximum output power 780W Maximum system voltage 1500V DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method PLC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection >75V Output overcurent protection >800W High temperature protection >110 C General Data Dimensions (WPH) 16*31.5*123mm Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT- 750 mm Input/output cable size 4mm*(I2AWG) / 4mm* (I2AWG) Frotection rotting IP68	Maximum input short-circuits current	23A
Output voltage 0-60V Maximum continuous output current 21A Maximum output power 780W Maximum system voltage 1500V DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency 299.7% Communication Communication Method PLC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection >75V Output overcurrent protection >800W High temperature protection >800W High temperature protection >10 × 800W High temperature protection >10 × 10 × 800W High temperature protection >10 × 10 × 800W High temperature protection >10 × 10 × 800W High temperature protection >10 × 800W High temperature prot	Night self-consumption	0W
Maximum continuous output current Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overload protection High temperature protection Sinher protection Weight Input/output cable length Input/output cable length Input/output cable size Advanced Protection Medicate Protection All 18*31.5*123mm All 18	DC Output	
Maximum output power Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overload protection High temperature protection Sine Peach Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Admri(12AWG) / 4mm* (12AWG) Protection rating POW Without SUNGO GT) I ± 0.10 V ### 1500 V #### 1500 V ##### 1500 V ######### 1500 V ##################################	Output voltage	0~60V
Maximum system voltage DC Output During Shutdown Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overcurrent protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals Protection reting 1500V 1±0.IV 1±0.IV E#0.IV 199.7% PIC PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature Advanced Protection PTSV Output overcurrent protection > 75V Output overcurrent protection > 8800W High temperature protection Seneral Data Dimensions (W*D*H) Il6*31.5*123mm Veight IN+ 200 / IN- 1100 / OUT- 750mm Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size Terminals Protection rating IP68	Maximum continuous output current	21A
Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overcurrent protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Protection Ite 1.0.IV Ite 2.0.IV Ite 3.1.5*123mm O.865kg Input/output cable length Input/output cable size Amm² (12AWG) / 4mm² (12AWG) Frotection rating IP68		780W
Output voltage (without SUNGO GT) Efficiency Peak MPPT efficiency Communication Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Utiput toverload protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size MC4(Compatible) Protection rating 1±0.IV 1±0.IV 1±0.IV 1±0.IV 1±0.IV 199.7% PUVoltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Power, Temperature, State PV Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Power, Temperature, State PV Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Current, Output Power, Temperature, State PV Voltage, Output Current, Output Current, Output Power, Temperature, Output Power, Temperature, Output Power, Te	Maximum system voltage	1500V
Efficiency Peak MPPT efficiency Communication Communication Method Communication Method PLC Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State PV Voltage, Output Voltage, Output Power, Temperature, State PV Voltage, Output Voltage, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Voltage, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Voltage, Output Power, Temperature, State ### PU Voltage, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### PU Voltage, Output Current, Output Power, Temperature, State ### P	DC Output During Shutdown	
Peak MPPT efficiency Communication Communication Method Communication Method PLC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection Output overcurrent protection PLC PV Voltage, Output Current, Output Power, Temperature, State Advanced Protection >75V Output overcurrent protection >800W High temperature protection Seneral Data Dimensions (W*D*H) Weight Il6*31.5*123mm Weight Input/output cable length Input/output cable length Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals Protection rating IP68	Output voltage (without SUNGO GT)	1±0.1V
Communication Method PLC Communication parameter PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State Advanced Protection Input overvoltage protection >75V Output overcurrent protection >22A Output overload protection >8800W High temperature protection >10 C General Data Dimensions (W*D*H) I16*31.5*123mm Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals Protection rating IP68		
Communication Method Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overload protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals PLC PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State >75V Output Overvoltage protection >75V Output overcurrent protection >8800W 116*31.5*123mm 116*31.5*123mm 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Protection rating IP68	Peak MPPT efficiency	≥99.7%
Communication parameter Advanced Protection Input overvoltage protection Output overcurrent protection Output overload protection High temperature protection Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State >75V Output Overvoltage protection >22A Output overload protection >800W **III 0 C General Data Dimensions (W*D*H) Weight Insut/output cable length Input/output cable length Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals Protection rating P68	Communication	
Advanced Protection >75V Input overvoltage protection >22A Output overload protection >800W High temperature protection >110 °C General Data I16*31.5*123mm Dimensions (W*D*H) 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68	Communication Method	PLC
Input overvoltage protection	Communication parameter	PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State
Output overcurrent protection >22A Output overload protection >800W High temperature protection >110 °C General Data I16*31.5*123mm Dimensions (W*D*H) 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm² (12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68	Advanced Protection	
Output overload protection >800W High temperature protection >110 °C General Data Ill6*31.5*123mm Dimensions (W*D*H) 116*31.5*123mm Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68	Input overvoltage protection	>75V
High temperature protection General Data Dimensions (W*D*H) Weight Input/output cable length Input/output cable size Terminals Protection rating Pinot Input/output cable Input/output In	Output overcurrent protection	>22A
General Data Dimensions (W*D*H) 116*31.5*123mm Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68	Output overload protection	>800W
Dimensions (W*D*H) 116*31.5*123mm Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm²(12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68	High temperature protection	>110°C
Weight 0.865kg Input/output cable length IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm Input/output cable size 4mm² (12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68		
Input/output cable length Input/output cable size Amm²(12AWG) / 4mm² (12AWG) MC4(Compatible) Protection rating IP68	Dimensions (W*D*H)	116*31.5*123mm
Input/output cable size 4mm² (12AWG) / 4mm² (12AWG) Terminals MC4(Compatible) Protection rating IP68		
Terminals MC4(Compatible) Protection rating IP68		IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm
Terminals MC4(Compatible) Protection rating IP68	Input/output cable size	4mm² (12AWG) / 4mm² (12AWG)
· ·	Terminals	
Relative humidity 0~100%RH	Protection rating	IP68
	Relative humidity	0~100%RH
Operating temperature range -40~+65°C	Operating temperature range	
Cooling Natural cooling	Cooling	Natural cooling
Certification CE	Certification	92
Packaging 28pcs/CTN 840pcs/pallets(20GP)	Packaging	28pcs/CTN 840pcs/pallets(20GP)

Data Gateway Technical Parameters

Data Gateway Tec	annical Parameters
Model	SUNGO GT
Match with	SUNGO IOPT 800W
AC Input Parameters	
AC input voltage range	90~264V
AC Input frequency	50/60Hz
Maximum AC input power	5W
Maximum AC input current	0.1A@90Vac
PV Input Parameters	
Terminals	MC4(Compatible)
Maximum system voltage	1500V
Nos of input strings	2
Maximum number of iOPT	40
Maximum current of each string	21A
Maximum module Nos per string	30
Communication Method	
Communication with optimizer	PLC
Communication with upper machine	2.4GHz Wi-Fi / RS485
Rapid Shutdown	
Initial state	Operate
Switch-on	Press the button once until the Running light is on
Switch-on time	<5s
Shut-down	 Press the button once until the RSD indicator lights up Controller AC power off, all indicator lights off
Shut-down time	<15s
Standards	
Electromagnetic compatibility (EMC)	IEC61000-6-1, IEC61000-6-2, IEC61000-6-3
Production Compliance	IEC62109-1
RoHs	Yes
Installation Specification	
Dimension (W*D*H)	140*33.5*175mm
Weight	0.88kg
AC input cable length	lm
Protection level	IP67
Working temperature range	-40∼+70°C
Cooling	Natural cooling
Form of installation	Wall hanging/holding, screw locking
Certification	CE
Packaging	5pcs/CTN 60pcs/pallets(20GP)

P5-6 GO WITH SUNSHINE



Features



Module-level MPPT, no more worries of shading, power generation increased up to 30%



Module-level rapid shutdown, ensuring fire and maintenance safety



Module-level data intelligent monitoring and accurate management



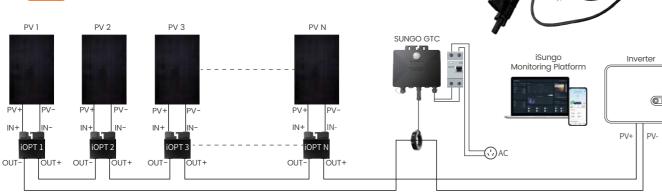
Fully utilize roof space to achieve system maximization



Convenient installation, wide range of adaptability, suitable for operating power plant renovation and new power plant installation



25 years products replacement warranty



Data Gateway

Optimizer Technical Parameters

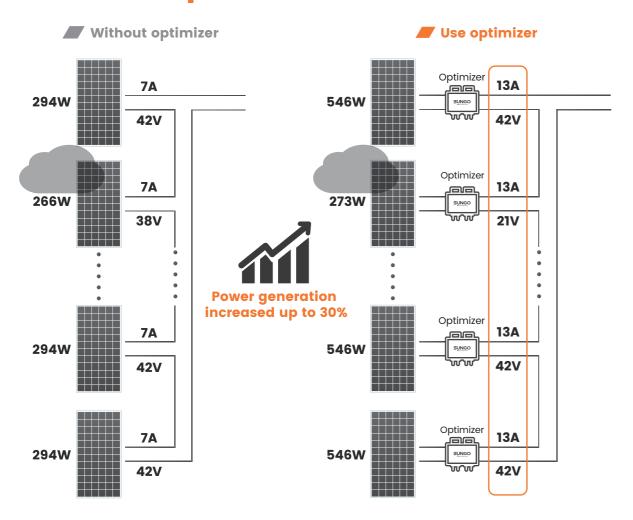
Model	SUNGO IOPT 800W
DC Input	
Maximum input power	800W
Maximum voltage	70V
MPPT voltage range	12~60V
Maximum continuous input current	21A
Maximum input short-circuits current	23A
Night self-consumption	ow
DC Output	
Output voltage	0~60V
Maximum continuous output current	21A
Maximum output power	780W
Maximum system voltage	1500V
DC Output During Shutdown	
Output voltage (without SUNGO GT)	1±0.1V
Efficiency	
Peak MPPT efficiency	≥99.7%
Communication	
Communication method	PLC
Communication parameter	PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State
Advanced Protection	
Input overvoltage protection	>75V
Output overcurrent protection	>22A
Output overload protection	>800W
High temperature protection	>110 °C
General Data	
Dimensions (W*D*H)	116*31.5*123mm
Weight	0.865kg
Input/output cable length	IN+ 200 / IN- 1100 / OUT+ 750 / OUT- 750mm
Input/output cable size	4mm² (12AWG) / 4mm² (12AWG)
Terminals	MC4(Compatible)
Protection rating	IP68
Relative humidity	0~100%RH
Operating temperature range	-40~+65°C
Cooling	Natural cooling
Certification	CE
Packaging	28pcs/CTN 840pcs/pallets(20GP)

Data Gateway Technical Parameters

Model	SUNGO GTC
Match with	SUNGO IOPT 800W/SUNGO RSDI-2
AC Input Parameters	SUNGO IOF1 OUUW/SUNGO KSDI-2
AC input voltage range	90~264V
AC Input frequency	50/60Hz
Maximum AC input power	50/00Hz 5W
Maximum AC input power Maximum AC input current	0.1A@90Vac
PV Input Parameters	DIVUE
Terminals	NGA (Compara stilla)
	MC4(Compatible)
Maximum system voltage	1500V
Nos of input strings	10
Maximum number of iOPT	200
Maximum number of RSDi-2	100
Communication Method	
Communication with optimizer	PLC
Communication with upper machine	2.4GHz Wi-Fi / RS485
Rapid Shutdown	
Initial state	Operate
Switch-on	Press the button once until the Running indicator lights up
Switch-on time	<5s
Shutdown	 Press the button once until the RSD indicator lights up Controller AC power off, all indicator lights off
Shutdown time	<15s
Standards	
Electromagnetic compatibility (EMC)	IEC61000-6-1, IEC61000-6-2, IEC61000-6-3
Production Compliance	IEC62109-1
RoHs	Yes
Installation Specification	
Dimension (W*D*H)	140*33.5*175mm
Weight	0.88kg
AC input cable length	lm .
Protection level	IP67
Working temperature range	-40∼+70°C
Cooling	Natural cooling
Form of installation	Wall hanging/holding, screw locking
Certification	CE
Packaging	8pcs/CTN 48pcs/pallets(20GP)

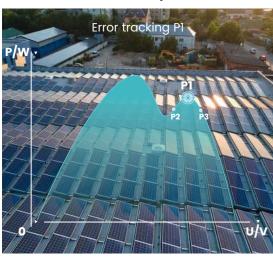
P7-8 GO WITH SUNSHINE

How the Optimizer Works

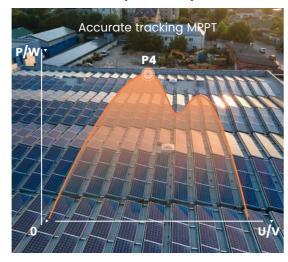


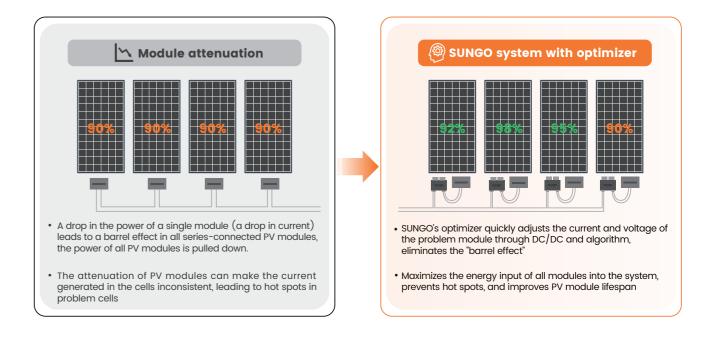
Accurate tracking of the maximum power point, increase the system power generation.

Traditional system



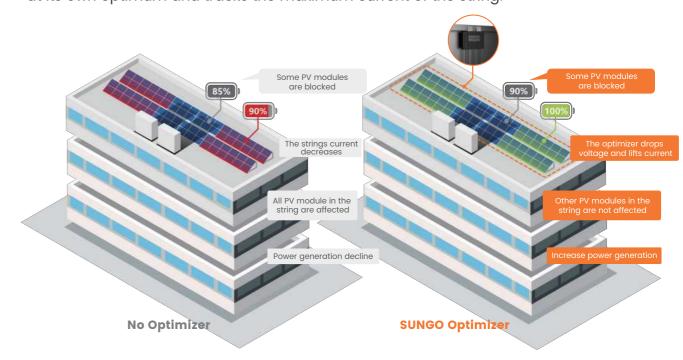
SUNGO Optimizer system





Module-level Optimization

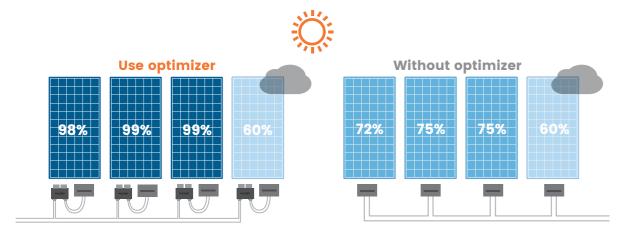
Module-level optimization can increase power generation up to 30%. Independent optimization at the module-level ensures that each module operates at its own optimum and tracks the maximum current of the string.



P9-10 GO WITH SUNSHINE

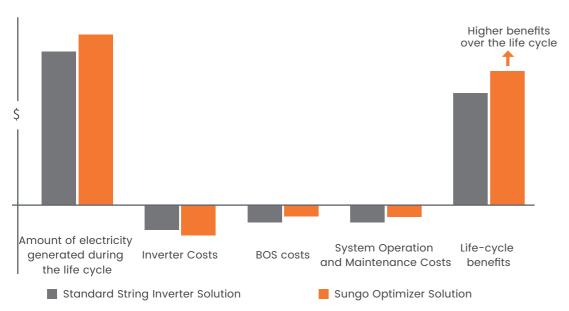
What Problem to Solve

Module-level MPPT tracking to prevent one PV module from affecting the entire string.



More Cost-effective Optimizer Solutions

Sungo's PV Smart Optimizer allows customers to optimize the cost of power generation over the life cycle of the system by increasing the amount of power generation and reducing the cost. It is able to optimize the power generation of each module, thus increasing the amount of power generation within the life cycle of the PV system. Compared to the traditional inverter system, the initial investment of the Sungo system is slightly higher, but the overall installation cost and the maintenance cost within the life cycle are lower, thus making Sungo's overall solution more attractive economically.



Avoiding Inconsistencies In Module Power Produced By PV Module Factory

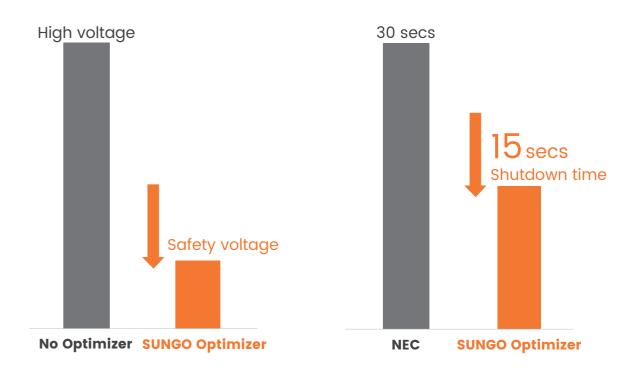
The module manufacturer's specification states that the module has a power tolerance of 0 to 3%, which can cause power generation losses to the system.

The optimizer can effectively solve this problem.



Protection of Modules and Roof Voltage Safety

The Sungo Optimizer's module-level rapid shutdown in 15 seconds ensures that the roof DC voltage is in a safe range, shorter than the NEC standard requirements.









Intelligent management, data at a glance



Module-level data management for easier operation and maintenance

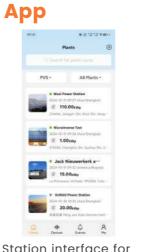


Comprehensive control of power station operation to realize maximum benefits



Remote fault analysis to reduce O&M costs









Core data is concise and clear at a glance



PV module layout for viewing PV module operating status



Optimizer detail for viewing PV module information status

Web

Smart Optimizer



Multi-view display at a glance, easy to manage all your power stations

Network architecture



Fast access to module-level performance data to pinpoint module problems



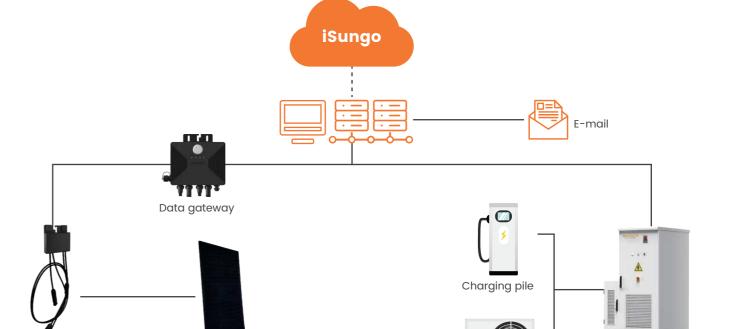
View current and historical data by day, week, month and year, and automatically calculate returns

Liquid-cooled

energy storage cabinets

P13-14 GO WITH SUNSHINE

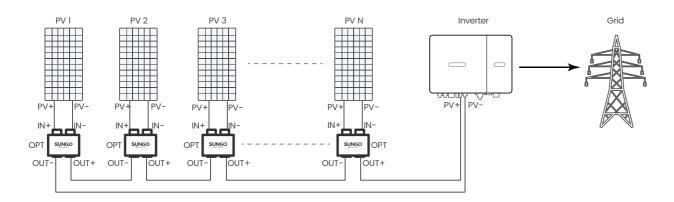
Heat pumps



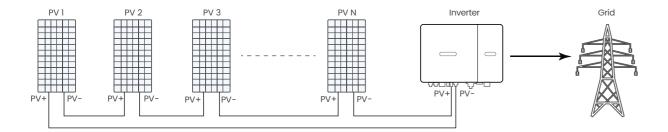
Typical Project Case Introduction

Comparison of two adjacent power stations with and without the optimizer installed.

Average power generation increase: 17.34%



Optimizer installed VS No optimizer installed





Optimizer installation date: july 1, 2020



Installed pv capacity: < 50kw for both systems



Number of optimizer installations: 143 pcs

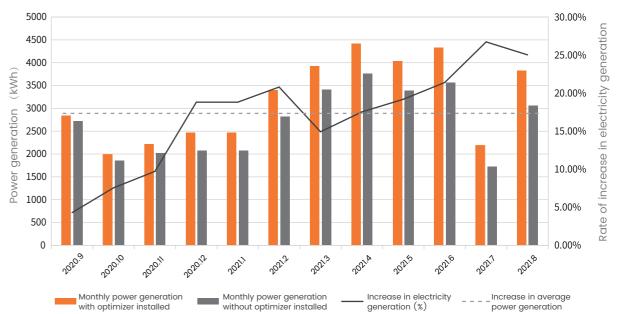


Average power generation increase: 17.34%

Comparative Data for Two Neighboring Power Stations

Improvement effect within one year (measured value).





Note: This data is collected from actual measurements taken from September 2020 to August 2021 by the customer.

The graph presented visually contrasts the power output of the Gunma Solar PV project in Japan, highlighting the substantial enhancement that occurred when an optimizer was incorporated. The optimizer proved to be highly efficacious, boosting the solar power generation by an impressive margin. Specifically, it enhanced the power generation efficiency from a baseline of 4.30% to a peak of 26.74% within the period spanning September 2020 to August 2021. On average, the installation of the optimizer led to a substantial average improvement of 17.34%, demonstrating its profound positive impact on the overall performance of the system.

Overall, the efficiency of PV power generation tends to improve with optimizers. However, the degree of improvement varies depending on the actual internal and external environment of the project, but the longer the life of the PV panels, the greater the optimization effect. According to a large amount of actual data, the average power generation has increased by more than 15% with Sungo's optimizers.

Project Cases

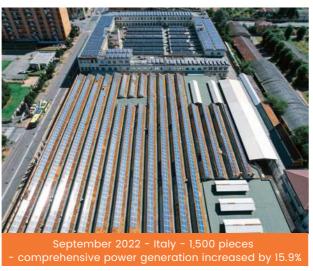












Professional and Comprehensive Service



Fast Response

12-hour agreement signing, 24-hour accurate quotation



Professional R&D Team

Structural, electrical, software, industrial design engineers to satisfy the diverse requirements of clients

After-sales service



Remote support: first response and fault checking



On-site support: global programs with 24-hour access



Follow up & Customer Satisfaction Survey



Adhere to the concept of global localized operation and service