








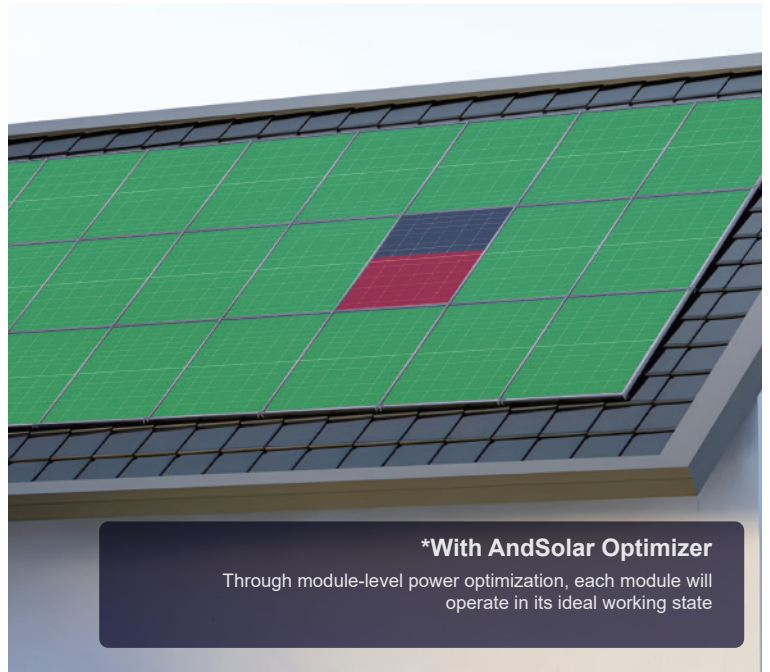
# AMCP

## Smart PV Optimizer

 Optimization  Design Flexibility  Monitoring  Multi-layer Protection  Quick Installation

# Optimization

Resolving system mismatch issue, increasing power generation by **5-25%**



# Design Flexibility

More installed PV panels equal to higher power generation, flexible system design

### Flexible System Design

**\*Without AndSolar Optimizer**

**\*With AndSolar Optimizer**

Allowing installation of up to **25%** more PV modules

This diagram shows two cross-sections of a building with solar panels. The top section, labeled '\*Without AndSolar Optimizer', shows a central area where panels are missing, indicated by a red dashed box. The bottom section, labeled '\*With AndSolar Optimizer', shows the same area filled with panels, indicated by a green dashed box, demonstrating how optimizers allow for a more flexible and densely packed system design.

### Oversized String Design

**\*Without AndSolar Optimizer**

String ①

String ②

**\*With AndSolar Optimizer**

String ①

Increasing the quantity of PV modules in a string up to **25%**, reducing system installation cost

This diagram shows two 3D views of a building roof with solar panels. The top view, labeled '\*Without AndSolar Optimizer', shows two strings of panels: String ① (green outline) and String ② (red outline). String ② is significantly shorter than String ①. The bottom view, labeled '\*With AndSolar Optimizer', shows only one string (String ①, green outline) that is much longer, incorporating the area previously occupied by String ②. This illustrates how optimizers allow for oversized strings, increasing the number of modules per string and reducing installation costs.

# Monitoring

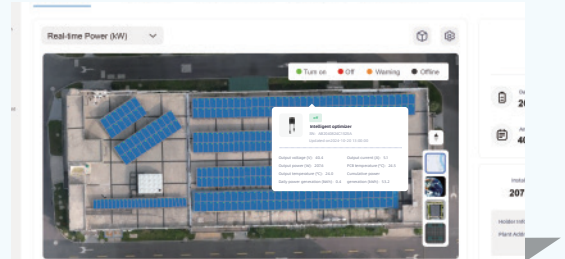
Increasing O&M efficiency by more than **50%**

## Physical Positioning



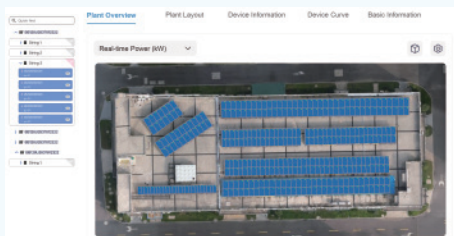
Generate a 1:1 virtual twin power station to quickly locate module locations

## Data Monitoring



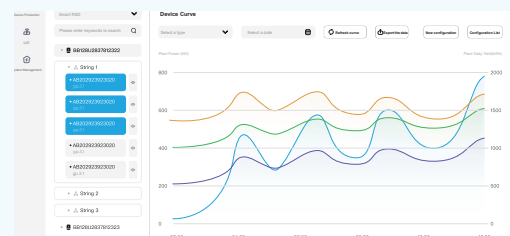
View each individual module voltage, current, power, electricity generation, temperature and other data in real time

## Data Playback



Dynamically display the station operational data

## Full Life Cycle Monitoring

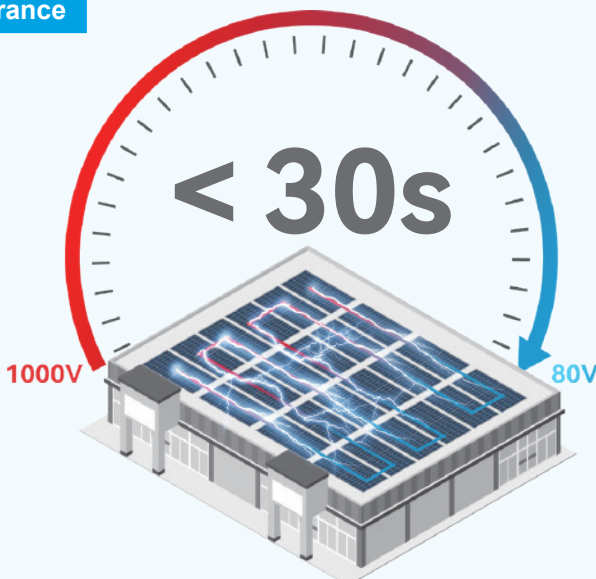


Monitoring of the entire life cycle of a power station, with operational data easily accessible

# Multi-layer Protection

Protect the safety of PV system

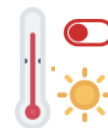
## Safety Assurance



Modul level rapid shutdown, system voltage reduced to safe voltage (below 80V) within **30s**, compliance to NEC 2017&2020(690.12) regulation

## Various Shutdown Methods

High Temperature Auto Shutdown



Cloud Platform Remote Shutdown



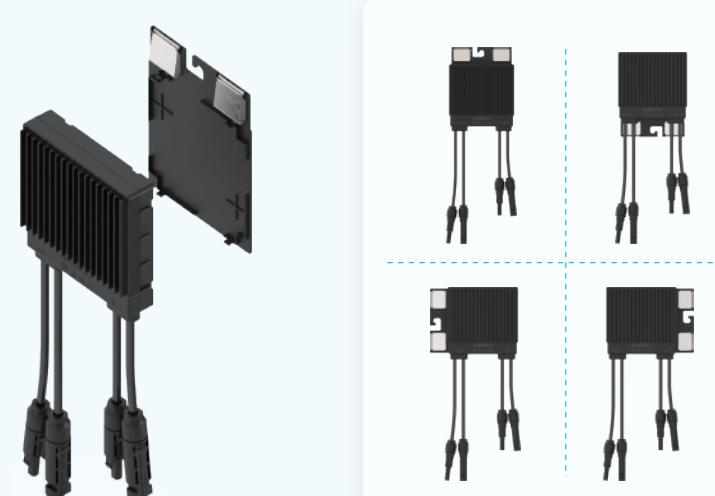
On-site Physical Manual Shutdown

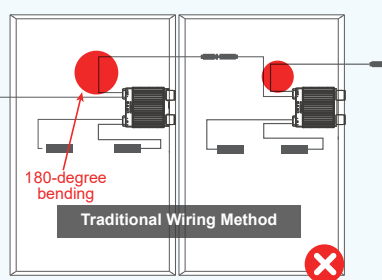


# Quick Installation

Innovative split design, and installation can be completed within **30s**

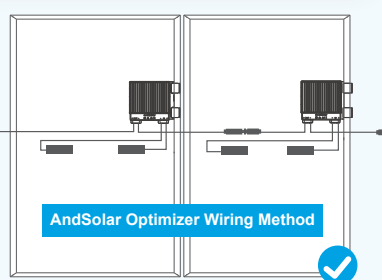
### Innovative Split Design





180-degree bending

Traditional Wiring Method

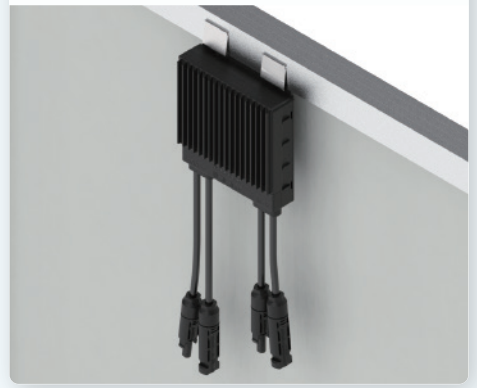


AndSolar Optimizer Wiring Method


Four-way outlet enhances installation flexibility, saves wires, and avoids 180-degree bending

### Installation Methods

① Clip installation method



② Bolt installation method



# Certification













# Product Parameters

Model	AMCP500-600T1	AMCP600-750T1
<b>Input Parameters</b>		
Rated Power	600W	750W
Maximum Input Power	650W	900W
MPPT Voltage Range	12-80V	
Maximum Input Current	16A	22A
Overvoltage Level	II	
<b>Output Parameters</b>		
Voltage Range	0-80V	
Maximum Output Current	16A	22A
Maximum Voltage in Disconnected State	1V	
Maximum System Voltage	1500V	
<b>Efficiency</b>		
Maximum Efficiency	99.60%	
Weighted Efficiency	99.00%	
<b>Structure Parameters</b>		
Dimensions (W*D*H)	120*33*155mm	
Input/Output Connectors	MC4/Compatible with MC4/Customizable	
Input Cable Length	0.6m/1.2m/Customizable	
Output Cable Length	0.75m/Customizable	
Ingress Protection Rating	IP68	
<b>Environment Parameters</b>		
Temperature Range*	-40°C~+85°C	
Relative Humidity Range	0~100%	
Highest Altitude	4000m	
<b>Other Parameters</b>		
Communication Method	HPLC	
User Interface	WEB+APP	
<b>Certification</b>		
Safety	IEC 62109-1, EN 62109-1, NEC 2017&2020(690.12)	
EMC	IEC/EN 61000-6-1/-2/-3/-4	

\* When the operating temperature exceeds 70°C, the device may work in de-rating mode and return to normal operating mode after the operating temperature decreases;

# Product Feature

	Features	AndSolar Smart Optimizer	Other Brands Optimizer
<b>Specifications</b>	Compatible PV Power	500-900W	650W
	Maximum Rated Current	22A	20A
	Max. Efficiency	99.6%	99.5%
	Overload Capacity	1.1-1.2X	1X
	Max. Communication Distance	800m	300m
<b>Basic Features</b>	Module Level Power Optimization (MPPT)	✓	✓
	Module Level Rapid Shutdown	✓	✗
	Oversized String Design	✓	✗
	Fault Warning	✓	✗
<b>Smart Features</b>	Module Level Data Monitoring	✓	✗
	Graphic Data Display	✓	✗
	Output Curve and Comparison	✓	✗
	Module Level Physical Positioning	✓	✗
	Early Warning Active Protection	✓	✗
	Digital Work Orders	✓	✗
	Fault Analysis	✓	✗
	O&M Strategy Analysis	✓	✗
	System Loss Analysis	✓	✗
	Full Life Cycle Asset Management	✓	✗
Remote Upgrade (OTA)	✓	✗	



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