



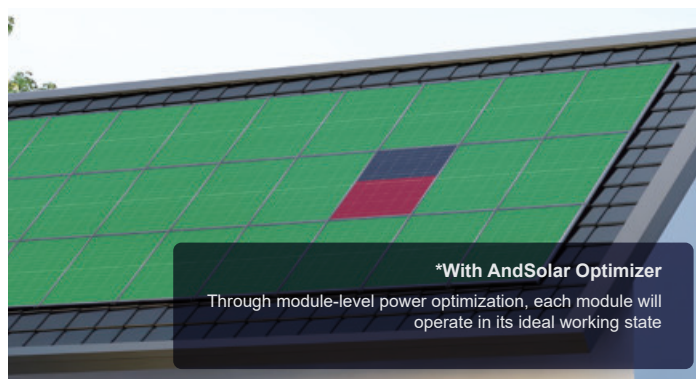
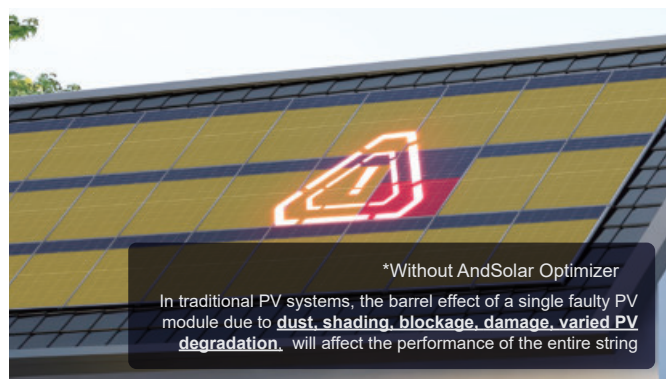
# AMCP

## Smart PV Optimizer

 Optimization  Flexible Design  Smart Monitoring  Multi-layer Protection  Quick Installation

# Optimization

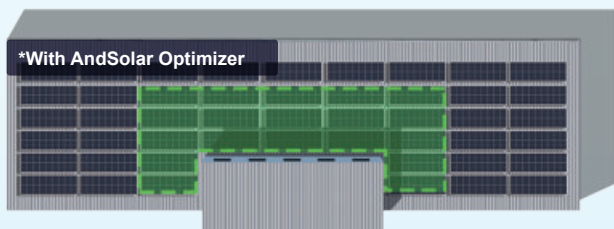
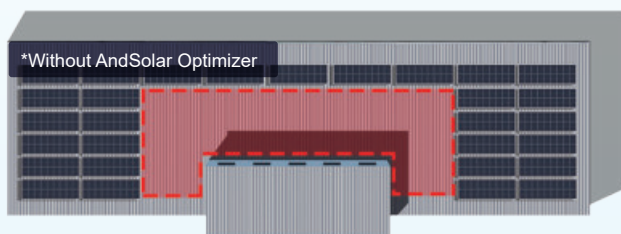
Resolving system mismatch issue, increasing power generation by **5-30%**



# Flexible Design

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

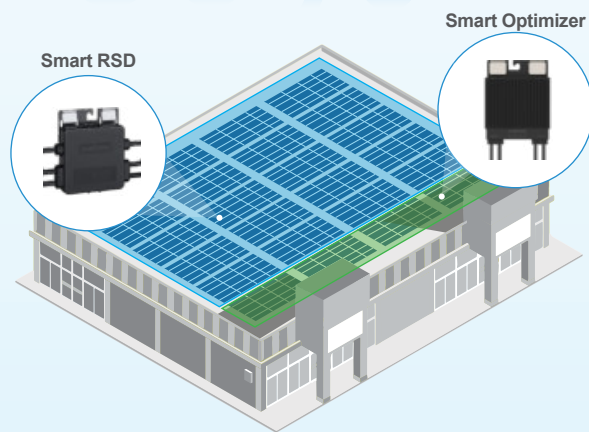
## Flexible system design



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

## Hybrid installation

Save Cost  
**50%+**

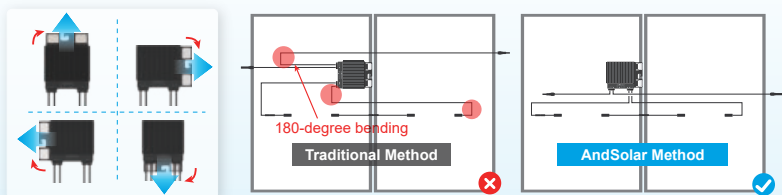


Allow hybrid installation of smart rapid shutdown devices and smart pv optimizers, reduces the investment cost and improves the ROI of your power plant

# Quick Installation

Innovative design, and installation can be completed within **30S**

## Rotatable installation design



The first four-way rotatable installation design, saving wires and avoiding 180-degree bending

## Installation methods

### Bolt installation



### Clip installation



# Smart Monitoring

Comprehensive understanding of every PV module

## Significantly improve O&M efficiency by 50%

- Reducing inspection frequency by module-level data monitoring

### Traditional solution

Traditional photovoltaic power plants have low monitoring accuracy, and maintenance teams are required to conduct on-site inspections 2-3 times per quarter to ensure safety

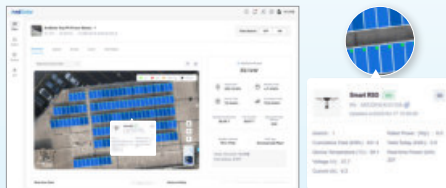
2~3 times/quarter

VS

### AndSolar solution

AndCloud 3.0 enables real-time monitoring of your PV system and module operation status, reducing inspection frequency

1 time/quarter



- 1:1 restoration of the actual power plant scene, remote troubleshooting

### Traditional troubleshooting

If the capacity is 200kW with 350 modules, the investigation is expected to take 4 hours

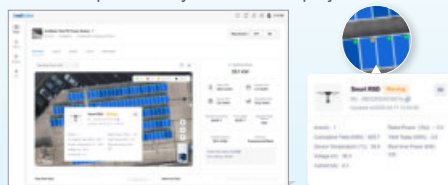
4+ hours

VS

### Remote troubleshooting

AndCloud 3.0→Warning List→Plant Details→Fault Location  
More helpful for large-scale and operationally inconvenient projects

5 mins



- Module-level management, remote shutdown low-efficiency or faulty modules and improve revenue

### Traditional management method

Unable to shutdown low efficiency modules in a timely manner results in reduced power generation efficiency of the power plant, requiring manual O&M, and increasing operating costs



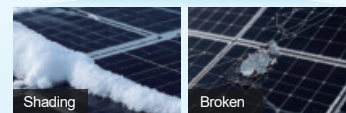
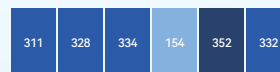
Reduce power plant revenue

VS

### Module-level management

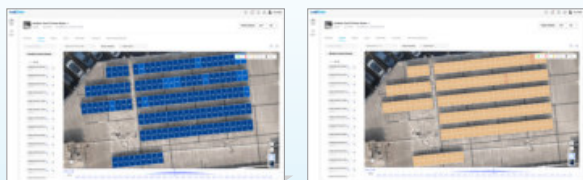
The faulty modules can be shutdown in time to improve the power generation efficiency, and the power plant problems can be solved together to save O&M costs

Improve power plant revenue



## Precise Module-level monitoring around 24/7

- Data playback and locate problems



Replay daily operating data to identify potential problems in power plants

- Maximize ROI with AI integrated

\*Launching in H2 2026



Precise module-level management powered by AI, ensure the profit of your power plant

# Multi-layer Protection

Protect the safety of the power plant

## Module-level RSD

**< 30S**

1000V → 30V

Decrease to safe voltage within **30S**  
compliance to **NEC 2017/2020/2023(690.12)** regulation

## Active and passive safety strategy

### High Temperature Auto Shutdown

- Real-time monitoring of device data
- Send warning information
- Issue shutdown command

Cloud Platform Response

### Cloud Platform Remote Shutdown

Shutdown the power plant    Shutdown one module

### On-site Manual Shutdown

Respond to emergencies immediately to ensure safety

## Product Features

Features	AndSolar Smart Optimizer		Other Brands Optimizer	
	1 to 1	1 to 2	1 to 1	1 to 2
Specifications	Compatible PV Power	900W	1800W	750W    1500W
	Maximum Rated Current		22A	20A
	Max. Efficiency		99.6%	99.5%
	Max. Communication Distance		800m	300m
Basic Features	Module-level Power Optimization (MPPT)	✓		✓
	Module-level Rapid Shutdown	✓		✗
	Oversized String Design	✓		✗
	Fault Warning	✓		✗
Smart Features	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)	✓		✗	

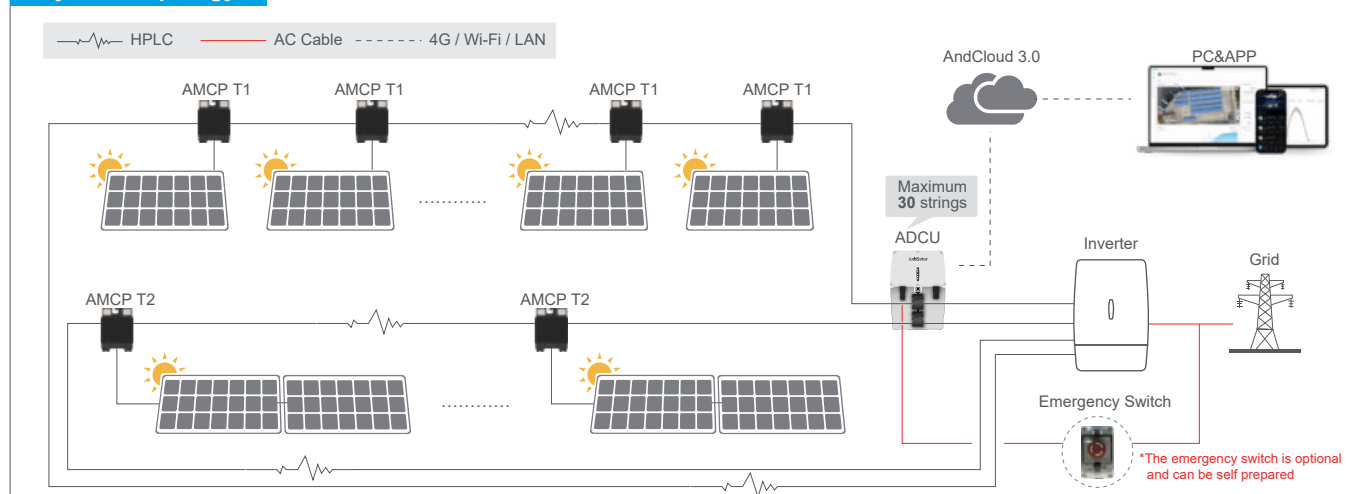
# Product Parameters



Model	AMCP500-600T1	AMCP600-750T1	AMCP1000-1200	AMCP1200-1500
	T1 Series		T2 Series	
<b>Input</b>				
Rated Power	600W	750W	1200W	1500W
Maximum Input Power	650W	900W	1300W	1800W
MPPT Voltage Range	12-80V		24-130V	
Maximum Input Current	15A	22A	16A	22A
Overvoltage Level	II			
<b>Output</b>				
Voltage Range	0-80V		0-130V	
Maximum Output Current	15A	22A	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		120*49*155mm	
Input/Output Connectors	MC4/Compatible with MC4/Customizable			
Input Cable Length	0.7m(+), 1.4m(-)/Customizable		1.4m(+/-)/Customizable	
Output Cable Length	0.3m(+), 1.3m(-)/Customizable		0.3m(+), 2.7m(-)/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</b>				
Communication Method	HPLC			
User Interface	WEB+APP			
<b>Certification</b>				
Safety	IEC 62109-1, EN 62109-1, NEC 2017/2020/2023(690.12)			
EMC	IEC/EN 61000-6-1/-2/-3/-4		FCC part 15, 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;

## System Topology



*And Solar. And All*



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