



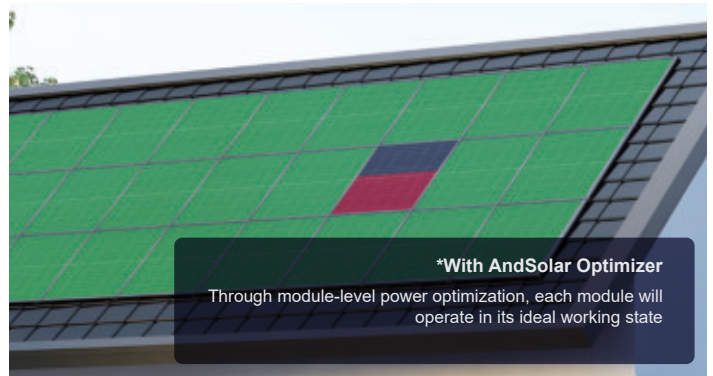
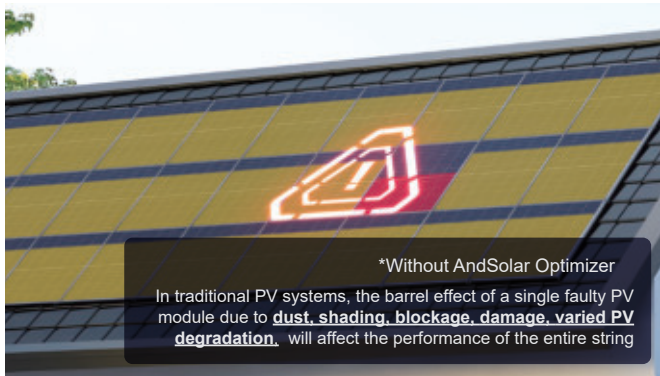
AMCP

Smart PV Optimizer

 Optimization  Flexible Design  Smart Monitoring  Multi-layer Protection  Quick Installation

Optimization

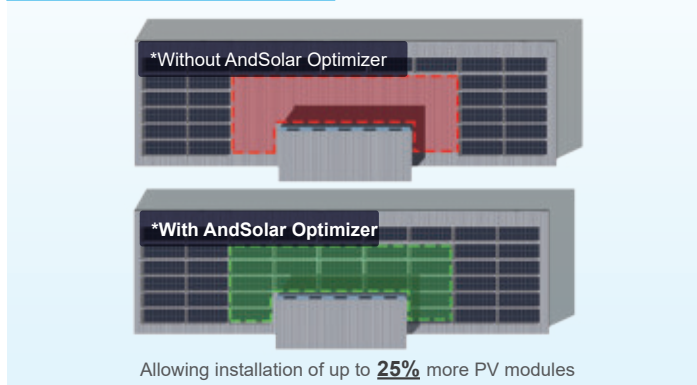
Resolving system mismatch issue, increasing power generation by **5-30%**



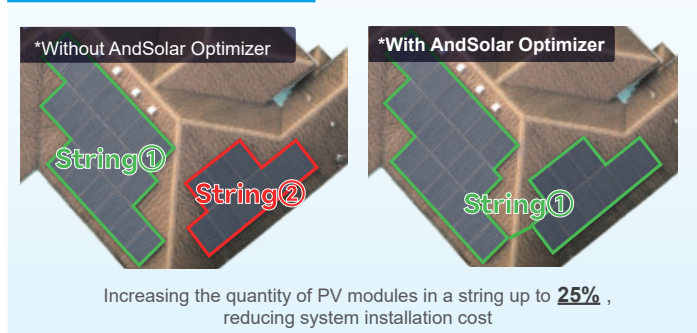
Flexible Design

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

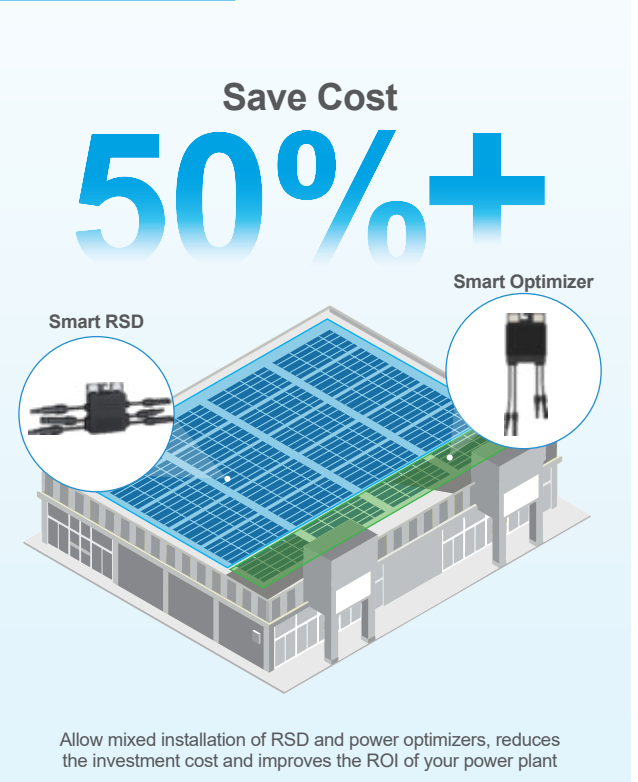
Flexible system design



Oversized string design



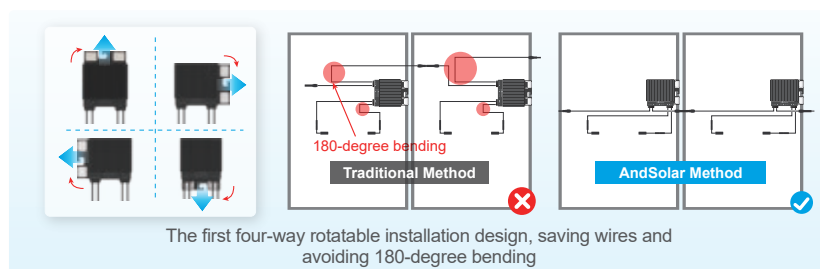
Mixed installation



Quick Installation

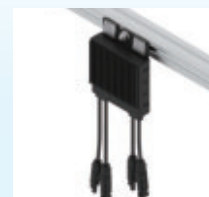
Innovative design, and installation can be completed within **30S**

Rotatable installation design



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

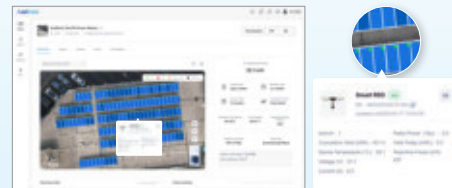
2~3 times/quarter

VS

AndSolar solution

AndSolar Cloud 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

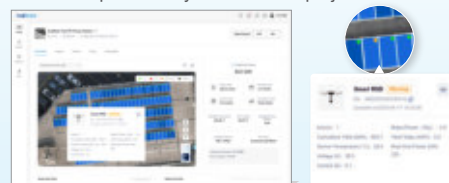
4+ hours

VS

Remote troubleshooting

AndSolar Cloud→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

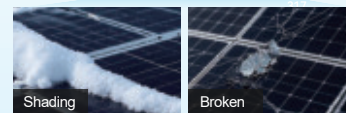
Module-level management

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



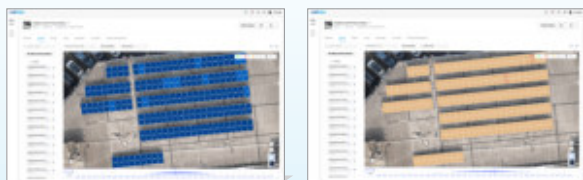
Improve power plant revenue

311	328	334	154	352	332
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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

*AndSolar AI will be available in Q4 2025

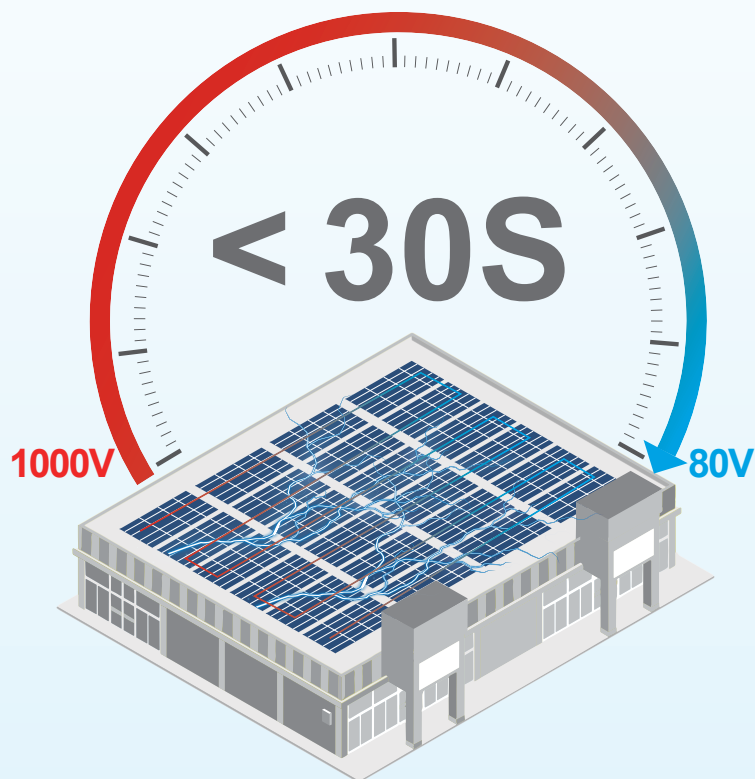


Precise module-level management powered by AI, ensure the profit of your power plant

Multi-layer Protection

Protect the safety of the power plant

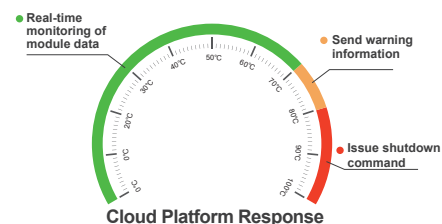
Module-level RSD



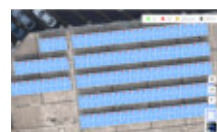
Decrease to safe voltage within **30S**
compliance to **NEC 2017&2020(690.12)** regulation

Active and passive safety strategy

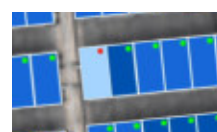
High Temperature Auto Shutdown



Cloud Platform Remote Shutdown



Shutdown the power plant



Shutdown one module

On-site Manual Shutdown

Respond to emergencies
immediately to ensure safety



Product Features

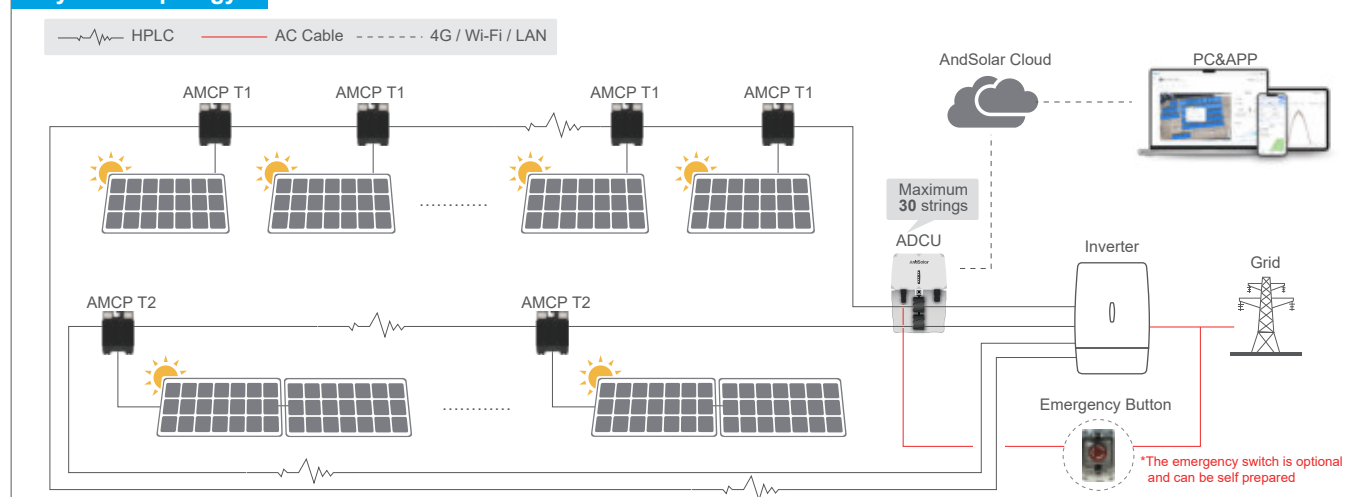
Features		AndSolar Smart Optimizer	Other Brands Optimizer
Specifications	Compatible PV Power	500~900W	650W
	Maximum Rated Current	22A	20A
	Max. Efficiency	99.6%	99.5%
	Overload Capacity	1.1~1.2X	1X
	Max. Communication Distance	800m	300m
Basic Features	Module-level Power Optimization (MPPT)	✓	✓
	Module-level 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	
Input				
Rated Power	600W	750W	1200W	1500W
Maximum Input Power	650W	900W	1300W	1800W
MPPT Voltage Range	12~80V		24~130V	
Maximum Input Current	16A	22A	16A	22A
Overvoltage Level	II			
Output				
Voltage Range	0~80V		0~130V	
Maximum Output Current	16A	22A	16A	22A
Maximum Voltage in Disconnected State	1V			
Maximum System Voltage	1500V			
Efficiency				
Maximum Efficiency	99.60%			
Weighted Efficiency	99.00%			
Structure Parameters				
Dimensions (W*D*H)	120*33*155mm		120*49*155mm	
Input/Output Connectors	MC4/Compatible with MC4/Customizable			
Input Cable Length	0.6m/1.2m/Customizable		1.4m/Customizable	
Output Cable Length	0.75m/Customizable		0.3m(+), 2.7m(-)/Customizable	
Ingress Protection Rating	IP68			
Environment Parameters				
Temperature Range*	-40℃~+85℃			
Relative Humidity Range	0~100%			
Highest Altitude	4000m			
Other				
Communication Method	HPLC			
User Interface	WEB+APP			
Certification				
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;

System Topology



And Solar. And All



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