

PV MODULE-LEVEL PRECISE MANAGEMENT SOLUTION

Safety / Optimization / Efficiency

And Solar, And All

AndSolor

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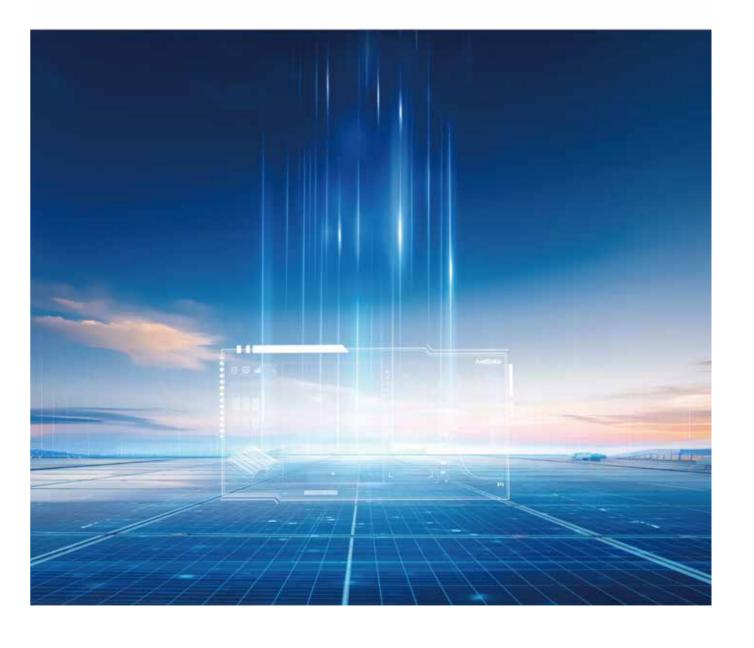












Company Profile

AndSolar Technology is a tech-company engaged in photovoltaic module-level power electronics (MLPE) and distributed photovoltaic smart energy solutions. The company's products cover Smart Rapid Shutdown Device, Smart Power Optimizer, Smart DC Module, Smart Inverter, Gateway and AndSolar Cloud, aiming to provide safe, smart and efficient products for global users.

Based on photovoltaic systems, IoT modules, power electronics, and digital platforms, AndSolar is able to deliver module-level precise management for distributed PV plants. This integrated method enhances safety and O&M efficiency while maximizing the energy yield potential of the power plants. Committed to driving innovation, AndSolar will advance global renewable energy development and play a reliable partner for users around the world.

Annual Production Capacity



- Led by senior industry experts, the team has vast experience in innovation-driven R&D and mass production of photovoltaic power electronics and IoT products
- Multiple R&D sectors are cross-driven to jointly innovate product and overcome R&D barriers



Comprehensive Understanding

- Expertise extends across the entire photovoltaic value chain
- Vast experience in the application of integrated solutions of distributed photovoltaic system, energy storage, load management and BIPV systems



ii Market Competitiveness

- Professional sales and technical team covering project development, asset management and after-sales services
- Sales channels cover various regions including Asia, Europe South America, North America, Oceania, and Africa

Forward-Thinking Technology

- Professional vision to prepare for future competitiveness
- A keen awareness of emerging and leading PV technologies
- Global view of PV technology and market trends

Company History

2021

- Complete market investigation and analysis to determine product development direction
- Gather multiple talents and form a core team

2023 H1

- Completed Pre-A round of tens of millions of financing
- Set up the Smart RSD project
- Set up the Gateway project
- Set up the Andsolar cloud project



2024 H1

- Smart RSD are being shipped in bulk overseas, with MW level projects landing in the Thai market
- Smart optimizer passed global mainstream certifications
- Andsolar Cloud 2.0 version officially released
- Second generation Gateway R&D project approved







2025

- Rotatable smart 1 to 2 RSD in mass production
- Rotatable smart 1 to 4 RSD in mass production
- Rotatable smart 1 to 2 optimizer in mass production
- Smart DC module officially released
- Smart inverter R&D and mass production
- Market expansion to Europe, Australia , and South America
- Establish overseas subsidiaries and set up the first overseas after-sales service station







2022

- Found in Suzhou
- Angel investment
- Our team members have over 15 years of photovoltaic industry experience



2023 H2

- Smart RSD&Gateway passed global mainstream certification and started mass production
- Andsolar Cloud 1.0 version officially released
- Domestic bulk orders, and multiple demonstration projects built overseas
- Set up the Smart Optimizer project







2024 H2

- Cumulated shipment of 100,000 sets
- Smart optimizer in mass production, receiving a large number of orders
- The second generation Gateway is in mass production
- Completed the A round of financing of tens of millions with a total financing of nearly 100 million
- Won the first prize in the Energy Electronics Industry Innovation Competition held by the Ministry of Industry and Information Technology





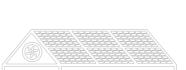




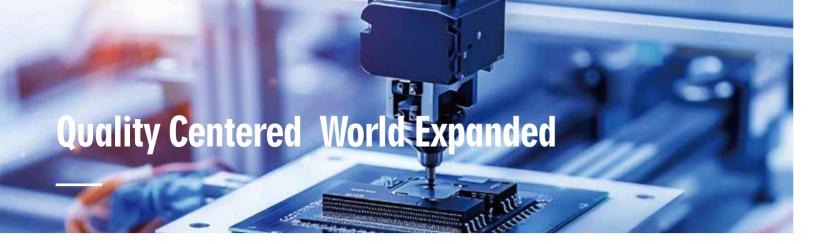














Continents Coverage

30+
Countries and Regions

1,000+
Global Customers







Shanghai Branch Office

AndSolor

Professional Design

- Strict component selection standards ensure long-term stability and reliability of the product
- Professional electrical and hardware design, taking EMC, heat dissipation and surge protection into account
- Product's function and safety have passed global mainstream certificates
 Environmental adaptability design meets high protection, wide temperature
 range, and corrosion resistance



Rigorous Test

- AndSolar Lab implements reliability tests far beyond standard severity
- TC400 (Thermal Cycle Test)
 Testing condition: -40°C~+85°C, 400 cycles, 2 x IEC standard
- HF10 (Humidity Freeze Test)
 Testing condition: -40°C~+85°C, 85%RH, 10 cycles, around 240hrs
- DH3000 (Demp Heat Test)
 Testing condition: 85°C, 85%RH, 3000 hrs, 3 x IEC standard
- *Testing methods fulfill IEC 61215/61730 standards



Strict Control

- Strict control of key processes such as SMT, high-precision welding, and glue filling
- Each key process of the product has passed tests such as FCT, AOI, conductivity, sealing and other tests
- Products have 100% passed high temperature aging and rated stress tests before shipment



Gontinuous Upgrade

- Continuously collect feedback from market and users, keep upgrading products
- Provide OTA support throughout the product life cycle to continuously improve user experience



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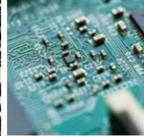
Pursuing Excellent Quality

AndSolar R&D team consists of experts from PV technology, power electronics, energy IoT, and smart algorithms, all working together to develop solutions for worldwide customers. At the same time, AndSolar factory is equipped with automated production lines to ensure high-quality production.











Global Certifications

And Solar products pass the certifications demanded in the main global markets and the pass rate of the initial certification reached 100%. Our systems are rigorously tested, ensuring the safety and efficiency of power plants worldwide.

















PV Module-level Precise Management Solution 07 PV Module-level Precise Management Solution 08



Solution-Commercial & Industrial













Solution-Residential



PV Module-level Precise Management Solution 12

PV Module-level Precise Management Solution 12





Safety

Warning and auto-shutdown to prevent safety issue

Precision

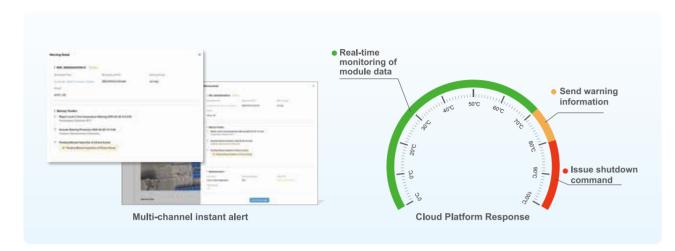
Precise module-level monitoring around 24/7

Efficiency

Significantly improve O&M efficiency by 50%

Safety Warning and auto-shutdown to prevent safety issue

• Al automatic diagnosis, prevents potential risks by active safety

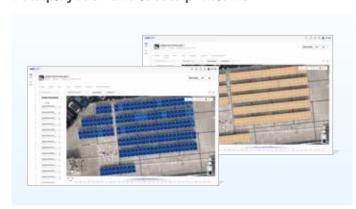


• Protect your power plant with remote shutdown anywhere and anytime



Precision Module-level monitoring around 24/7

• Data playback and locate problems

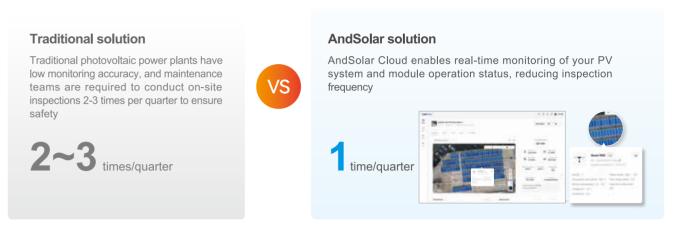


Maximize ROI with AI integrated



Efficiency Significantly improve O&M efficiency by 50%

Reducing inspection frequency by module-level data monitoring



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

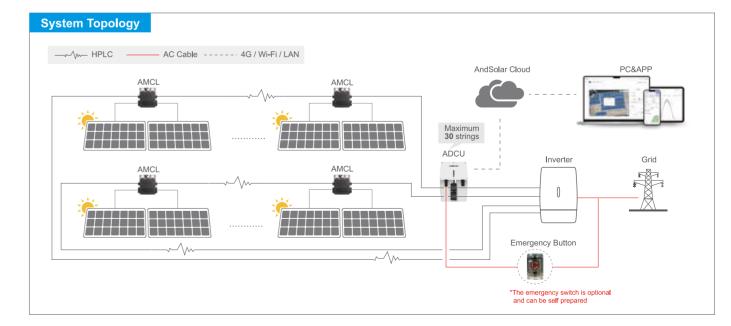


• Module-level management, remote shutdown low-efficiency or faulty modules and improve revenue



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Model AMCL-D2 AMCL-E2 AMCL-F2 Input Voltage Range 8~80V Single-channel, 120V Dual-channel Maximum Input Current 15A 25A Maximum Short-Circuit Current 30A Output 8~120V Voltage Range 600/1000/1500V Maximum System Voltage 15A 20A 25A Maximum Output Current 1V Maximum Voltage in Disconnect State **Structure Parameters** Dimensions (W*D*H) 103*23*105mm MC4/Compatible with MC4/Customizable Input/Output Connectors 0,3m, 0,6m/0,6,1,5m/Customizable Input Cable Length Output Cable Length 1.4m/Customizable IP68/Tpye 6P Ingress Protection Rating UL94 5VA Flame Retardant Grade **Environment Parameters** Temperature Range -40°C~+85°C Relative Humidity Range 0~100% Other HPLC Communication Method WEB+APP User Interface Certification NEC 2017&2020(690.12), UL 1741, CSA C22.2 No.330, UL 3741, IEC/EN 62109-1 Safety



FCC Part15, IEC/EN 61000-6-1/-2/-3/-4

EMC

Smart Rapid Shutdown Device

AMCL Series - Gen2



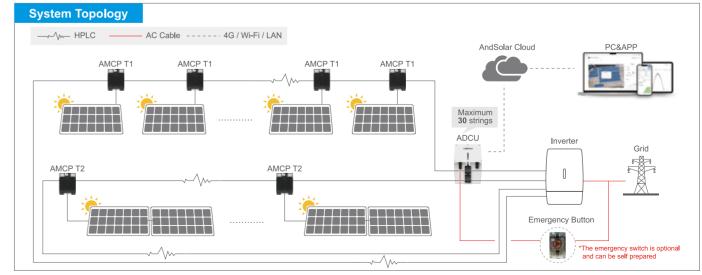
- Auto-shutdown to prevent safety issue
- 1V shutdown voltage to ensure DC side safety
- Module-level monitoring to easily locate faulty parts
- Communication distance: 800m to meet various application
- Rotatable installation with bolts and clip allowing full flexibility
- Firmware remote OTA upgrade to continuously improve user experience

Smart Power Optimizer AMCP Series Auto-shutdown to prevent safety issue Module-level optimization improves system power generation efficiency Module-level monitoring to monitor the real-time status of each module Smart operation and maintenance reduces power plant O&M costs Improve system design flexibility and optimize the usage of building area Rotatable installation with bolts and clip allowing full flexibility

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Model	AMCP500-600T1	AMCP600-750T1	AMCP1000-1200	AMCP1200-1500			
	T1 S	eries	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			I				
Output							
Voltage Range	0~8	30V	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/Cu	stomizable	0.3m(+), 2.7m(-)/Customizable				
Ingress Protection Rating	IP68						
Environment Parameters							
Temperature Range*	-40°C~+85°C						
Relative Humidity Range	0~100%						
Highest Altitude		400)0m				
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;



Gateway

ADCU Series

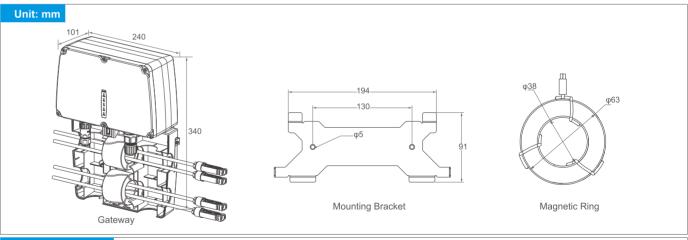


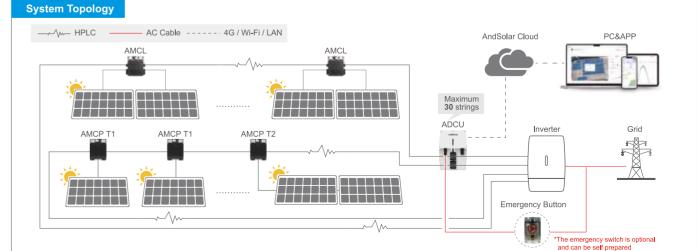
- Support up to 30 PV strings and up to 600 PV modules
- Innovative compartment design, eliminating the needs to punch holes or cut wires, effortless installation
- Excellent product design, makes 30% smaller than Gen-1 and enables ingress rating of IP65
- Support 4G, LAN, Wi-Fi communication methods
- Equipped with a power switch for easier on-site O&M
- Support AMCL-Gen2 series and AMCP series in one PV system

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Model	ADCU-M0				
Input					
Input Voltage	85~264V				
Operating Power	2W				
Maximum MPPT String Voltage	1500V				
Max. No. of Modules in Series	30				
Magnetic Ring					
Number of Magnetic Rings	1	2			
Max. Input Strings	10	30			
Max. PV Module Input	200(*Specific device)	600(*Specific device)			
Thickness	23mm	46mm			
Inner Dimension/Outer Dimension	38mm/63mm				
Maximum Current of Single Magnetic Ring	500A				
Outdoor Box Specifications					
Dimensions (W*D*H)	240*101*340mm				
Temperature	-40°C~+85°C				
Ingress Protection Level	IP65				
Communication					
Device Communication	HPLC				
Cloud Communication	4G/LAN/Wi-Fi				
Certification					
Safety	NEC 2017&2020(690.12), UL 1741, CSA C22.2 No.330, UL 3741, IEC/EN 62109-1				
EMC	FCC Part15, IEC/EN 61000-6-1/-2/-3/-4				

^{*}Specific device: 1-to-2 devices can input at most 600 modules (e.g., smart module-level rapid shutdown device)

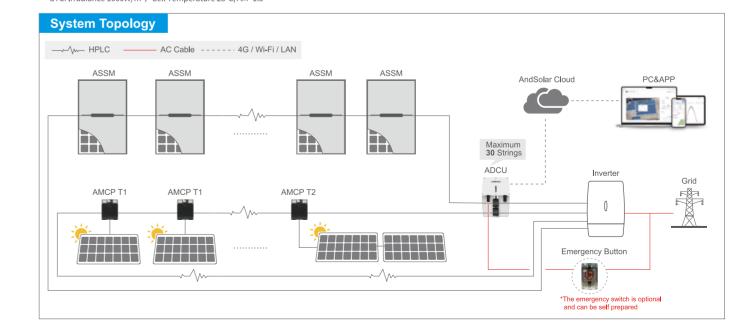




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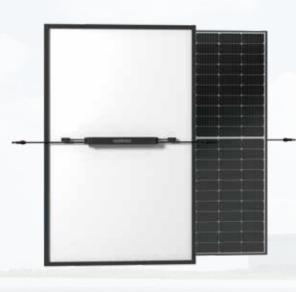
Model	ASSM	450-460-N	ASSM	ASSM620-630-N66DGS			
Mechanical Characteristics							
Cell Type			N- type Mo	no-crystalline			
No. of Cells	108(54×2)				132(66×2)		
Dimensions	1762×1134×30mm			2382×1134×30mm			
Weight	22.5kg			32.5kg			
Front Glass/Back Glass	1.6mm / 1.6mm			2.0mm / 2.0mm			
Junction Box	AndSolar Smart Box						
Protection Class	Class II						
IEC Fire Type	Class C						
Connector Type	MC4/Compatible with MC4/Customizable						
Output Cables(Including Connector)	(+): 400mm, (-): 300mm/Customized Length						
Ingress Protection Rating	IP68/Tpye 6P						
Flame Retardant Grade	UL94 5VA						
Specifications (STC)							
Maximum Power - Pmax [Wp]	450	455	460	620	625	630	
Maximum Power Voltage - Vmp [V]	32.82	33.00	33.17	40.72	40.88	41.02	
Maximum Power Current - Imp [A]	13.71	13.79	13.87	15.22	15.29	15.36	
Open-circuit Voltage - Voc [V]	39.30	39.50	39.70	49.08	49.28	49.48	
Short-circuit Current - Isc [A]	14.48	14.56	14.64	16.08	16.14	16.20	
Module Efficiency STC [%]	22.52	22.77	23.02	22.95	23.14	23.32	
Power Tolerance	0~+3%						
Temperature Coefficients of Pmax	-0.29%/°C						
Temperature Coefficients of Voc			-0.2	5%/°C			
Temperature Coefficients of Isc	0.045%/°C						
Operating Voltage Range	8~60V						
Maximum Voltage in Disconnect State	1V						
Application Conditions							
Operating Temperature	-40°C~+85°C						
Relative Humidity Range	0~100%						
Maximum System Voltage	1500V(IEC)						
Maximum Series Fuse Rating			3	80A			
Other							
Communication Method	HPLC						
User Interface	WEB+APP						

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5



Smart DC Module

ASSM Series

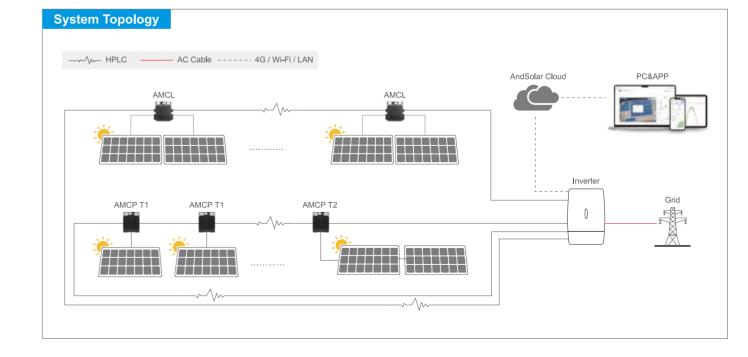


- Integrated with smart RSD, more function but less cost
- Auto-shutdown to prevent safety issue
- 1V shutdown voltage to ensure DC side safety
- Module-level monitoring to easily locate faulty modules
- Module-level management to shutdown the faulty module or string
- Communication distance: 800m to meet various application

*The Smart DC Module will be released in Q4 2025

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AECU-A1 AECU-B3 Model Output 10kW 33kW Rated Output Power 220/230V 380/220V; 400/230V Rated Output Voltage Maximum Output Current 48A Single Phase Three Phase 3W+PE; 3W+N+PE Grid Type Rated Frequency 50/60Hz Power Factor -0.8~0.8 < 3% THDi Input Maximum Input Voltage 480V 1000V Maximum Input Current 25.5A 43.5A Mechanical Dimensions (W*D*H) 350*170*350 mm 350*200*550 mm Input Connectors MC4/Compatible with MC4 -40~+60°C Temperature Range Ingress Protection Rating IP65 Other Communication Modes RS485; Wi-Fi; 4G(Optional) Maximum Efficiency 98.5% 98.9% Weighted Efficiency 98.0% 98.5% Certification Safety IEC/EN 62109-1/-2 EMC FCC Part15, IEC/EN 61000-6-1/-2/-3/-4







Full life cycle reliable service and professional support



Professional pre-sales

- Sales+Engineer 2V1 pre-sales consultation, answering technical questions about power plant installation
- Accurate and fast assessment, providing a demand list based on the customer's installed capacity



Installation support

- Global projects with on-site installation guidance and trouble-shooting
- Engineers assist in construction to ensure the precise management of power plant



Worry-free after-sales service

- Continuous OTA updates of product functions to keep investment rising
- 24/7 real-time service response to efficiently solve customer problems
- All products have been insured by Ping An Insurance



Professional training

- Professional engineers provide regular training to explain the key points of power plants
- Integrate training forms with online, offline, and simulated operations

PV Module-level Precise Management Solution 27

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Project Cases

AndSolor







MG Stationery PV Project in Shanghai, China



• Jotun Carport PV Project in Jiangsu, China











• Xiangzhong Ceramics Mall in Hunan, China



• 3E Industrial Complex PV Project in Jiangsu, China ()



• Tieta Base Station PV Project in Jiangxi, China



• Subdistrict Office PV Project in Shanghai, China





• Fudi Villa PV Project in Shanghai, China

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Rubber Factory PV Project in Krabi, Thailand



Hotel PV Project in Phuket, Thailand



• TC Town PV Project in Rayong, Thailand



Capella Resort PV Project in Singapore





• Plastic Factory PV Project in Manila, Philippines



• Tool Factory PV Project in Rayong, Thailand



Villa PV Project in Sydney, Australia



• Dispaly Center PV Project in Sydney, Australia

