AMCL

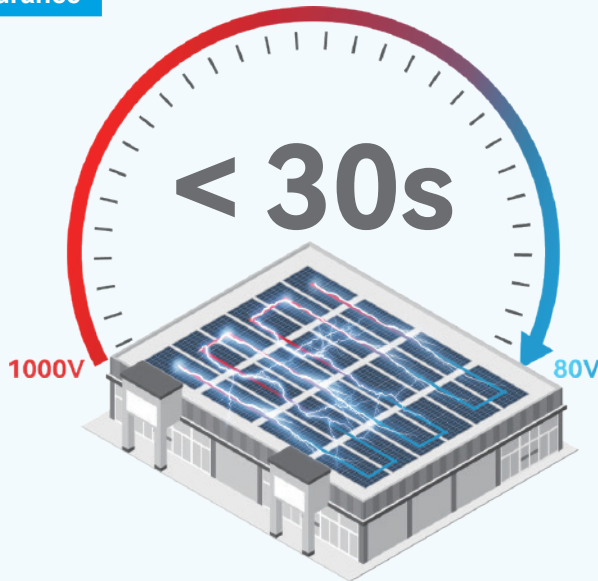## Smart Rapid Shutdown Device

Module Level RSD

Compliance to **NEC 2017&2020(690.12)** regulation

Safety Assurance

< 30s

1000V → 80V

Modul level rapid shutdown, reduced to safe voltage 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

Highest Standard of Flame Retardant Grade : V-0

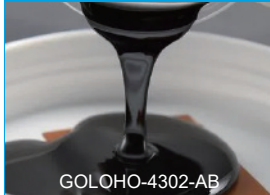Each material complies with the V-0 flame retardant grade in the **U.S. UL94 standard**

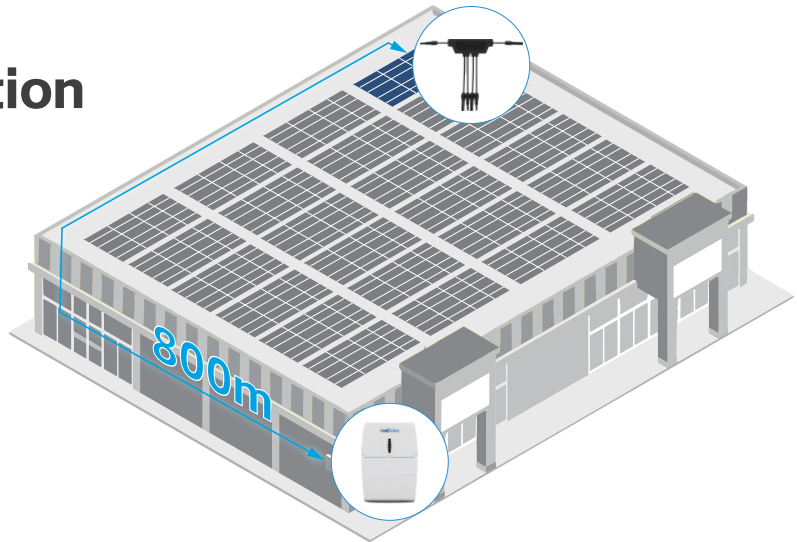| Casing	Sealing glue	DC cable	Terminals
Noryl PX9406P	GOLOHO-4302-AB		
Flame Retardant Grade V-0	**Flame Retardant Grade V-0**	**Flame Retardant Grade V-0**	**Flame Retardant Grade V-0**

Flame Retardant Grade	Flame Extinguishing time after two 10-second combustion tests	Burning Droplets
HB	Depending on the thickness it may not necessarily burn out within a specific time	Varied
V-2	Extinguished within 60 seconds	Yes
V-1	Extinguished within 60 seconds	No
V-0	**Extinguished within 30 seconds**	**No**

Module Level Monitoring

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

Ensure Power Station Safety

Active safety system, set fault trigger conditions, immediately issue corresponding protection instructions to ensure power station safety

Reduce O&M Costs

Module level monitoring and management accuracy, remote fault diagnosis, effectively reducing various costs such as O&M, labor, materials, and energy costs

Asset Value Appreciation

The data of the entire life cycle of the power station is easily viewable, which makes it easy to evaluate the power station assets and help the power station maintain and increase its value

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

Module Level Management

Allow user to shutdown corresponding faulty module on the string and reduce the power generation losses

Without AndSolar RSD

85% 85% 85% 85% 75% 85% 85% 85%

85% 85% 85% 85% 85% 85% 85% 85%

String Efficiency 84%

With AndSolar RSD

100% 100% 100% 100% 0% 100% 100% 100%

100% 100% 100% 100% 100% 100% 100% 100%

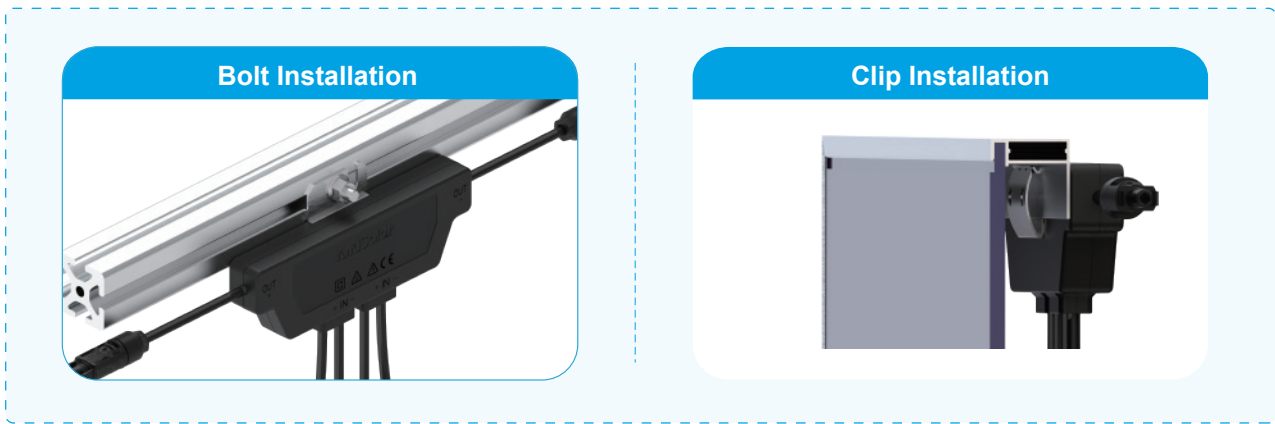**String Efficiency 94%**

"And" Flexible

Max. Communication Distance:800m

Meeting various type of constructions

800m

Installation Method

Compatible with clip or bolt installation methods, and installation can be completed within **30s**

Bolt Installation

Clip Installation

"And" Reliable

Compliance with **UL 1741, UL 3741, IEC 62109-1, IEC 61000** standards and **IP68** protection rating

Product Parameters

Model	AMCL-A2	AMCL-B2	AMCL-C2
Input Parameters			
Voltage Range	8-80V Single-channel, 120V Dual-channel		
Maximum Input Current	15A	20A	25A
Maximum Short-Circuit Current	30A		
Output Parameters			
Voltage Range	8-120V		
Maximum System Voltage	600/1000/1500V		
Maximum Output Current	15A	20A	25A
Maximum Voltage in Disconnect State	1V		
Structure Parameters			
Dimensions (W*D*H)	180*23*70mm		
Input/Output Connectors	MC4/Compatible with MC4/Customizable		
Input Cable Length	0.6m/1.5m/Customizable		
Output Cable Length	1.4m/Customizable		
Ingress Protection Rating	Type 6P/IP68		
Environment Parameters			
Temperature Range	-40℃~+85℃		
Relative Humidity Range	0~100%		
Other Parameters			
Communication Method	HPLC		
User Interface	WEB+APP		
Certification			
Safety	NEC 2017&2020(690.12), UL 1741, UL 3741, IEC 62109-1		
EMC	FCC Part15, IEC/EN 61000-6-1/-2/-3/-4		

Product Feature

	Features	AndSolar Smart RSD	Other Brands RSD
Specifications	Compatible PV Current	15～25A	15A
	Max. Communication Distance	800m	300m
	Working Voltage	10-150V (Two-way)	10-80V (One-way)
Basic Features	Module Level Rapid Shutdown	√	√
	Active Safety Protection	√	✗
	Fault Warning	√	✗
	Shutdown Method	On-site Shutdown&Remote Shutdown&Active Shutdown	On-site Shutdown
	Control Level	Module Level	String Level
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)	√	✗

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