



MR Series Module-Level Micro Controller Monitoring & Rapid Shutdown Function Series



Module-Level Rapid Shutdown

Reduce module voltage below 1V within 30s



Module-Level Monitoring

1:1 digital virtual power station
Real-time monitoring and diagnosis of panel status



The MR series not only has a module-level rapid shutdown function, meeting the safety requirements of the US NEC 690.12-2014, 2017 and 2020 for photovoltaics, but also can monitor the power, voltage, current and other parameters of any panel in real time, and collect and upload them to the Acloud platform through the data controller (V2.5 Control Box).

1:1 digital virtual power station can realize convenient operation and maintenance of solar system, in-depth health scan and operation data analysis of each single panel, realizing intelligent analysis of solar system.



Reduce module voltage below 1V within 30s



Intelligent operation costs reduced by 50%



Digital Power Station One-Stop Control



Multiple efficient and convenient installation methods

Technical Parameters	APT-MC-MR-T2
Functions	Module-level Rapid Shutdown ; Module-level Monitoring
Number of Modules Connected	2
Input	
Rated Input Power	800W*2
Input Voltage Range	12V-80V*2
Max. Operating Current (Imp)	20A
Max. Short-circuit Current (Isc)	25A
Output	
Max. Output Voltage	160V
Max. Output Current	20A
Bypass Output	✓
Output Shutdown Voltage	< 1.5V
Shutdown Response Time	30s
Communication	
Communication Mode	PLC
Communication Rate	200k-1M/s Self-Adaptive
Compatible V2.5 Control Box	DCON-4G (S/M/L), DCON-WIFI (S/M/L)
Safety Certification	
Safety	UL1741 / CSA C22.2 No.107.1 / CSA C22.2 No.330 comply with NEC Code Article 690.12 module-level shutdown characteristics
EMC	FCC part 15b
RoHS Certification	✓
General Parameters	
Dimensions (L x W x D)	143 x 62 x 19.5 mm
Weight (Including Cables)	0.76KG
Input and Output Terminals	MC4 / Compatible with MC4 / Customized
Length of Output Cable	+1.3m, -1.5m/Customized
Operating Temperature Range	-40°C to +85°C
Humidity Range	0%-100%
Protection Rating	IP68
Max.System Voltage	1500V

