

Smart PV Module Optimizer

AMCP Series



Module-level optimization improves system power generation efficiency



Module-level rapid shutdown to avoid DC high voltage risk



Module-level monitoring to monitor the status of each module in real time



Smart operation and maintenance reduces power plant O&M costs



Improve system design flexibility and optimize the usage of building area



Separatable mounting plate design, allowing the cables to be directed to any direction to meet various applications

Model	AMCP500-600T1	AMCP600-750T1
Input Parameters		
Rated Power	600W	750W
Maximum Input Power	650W	900W
MPPT Voltage Range		12-80V
Maximum Input Current	16A	22A
Overvoltage Level		II
Output Parameters		
Voltage Range		0-80V
Maximum Output Current	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	
Input/Output Connectors	MC4/Compatible with MC4/Customizable	
Input Cable Length	0.6m/1.2m/Customizable	
Output Cable Length	0.75m/Customizable	
Ingress Protection Rating	IP68	
Environment Parameters		
Temperature Range*	-40°C~+85°C	
Relative Humidity Range	0~100%	
Highest Altitude	4000m	
Other Parameters		
Communication Method	HPLC	
User Interface	WEB+APP	
Certification		
Safety	IEC 62109-1, Compliance with NEC 2017&2020(690.12) Requirements	
EMC	FCC Part15, 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

