



MPPT Solar controller AI series 40A-100A



FEATURES

- Can support WIFI / GPRS
- 12/24/36/48V adaptive
- Three-stage smart charging
- Adjustable parameters by pressing buttons
- It can connect Lead acid battery/lithium battery /waterbattery

APPLICATION

- ❖Shipping/Fishing
- ❖Woodland
- ❖Resident
- ❖Construction
- ❖Desert

GT Powersafe

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MPPT Solar Charger

AI Series

PARAMETERS

Model	AI 4015 / AI 60415 / AI 80415 / AI100415 / AI 40425 / AI 60425 / AI 80425 / AI100425								
System Voltage	12/24/36/48VDC(Adaptive)				96VDC				
Rated current	40A	60A	80A	100A	40A	60A	80A	100A	
Charging mode	MPPT maximum power point tracking								
Applicable battery type	Sealed lead acid battery, GEL lead acid battery, open lead acid battery (can also customize parameters for other types of battery charging)								
Charging method	Three stages: constant current, constant voltage, floating charge								
PV input maximum open circuit voltage (VOC)	DC150V				DC250V				
Starting time	≤10s								
Dynamic response recovery time	≤500us								
Static power	≤4W		≤8W		≤4W		≤8W		
MPPT Tracking efficiency	≥99.5%								
Max efficiency	≥98%								
System identified voltage range	8 ~ 64V				72 ~ 128V				
Maximum power point operating voltage range	12V	20 ~ 150V				128 ~ 250V			
	24V	36 ~ 150V							
	36V	48 ~ 150V							
	48V	64 ~ 150V							
Rated charging power	12V	540W	800W	1040W	1300W	/			
	24V	540W	1080W	2080W	2600W				
	36V	1620W	2400W	3120W	3900W				
	48V	2160W	3200W	4160W	5200W				
	96V	/							4160W
Load voltage	Same as Battery Voltage				/				
Rated load current	40A				/				
Load control method	Normally ON/OFF mode/time control mode/light control mode				/				
Load undervoltage protection	10.5V*N (N stands for batteries number) Parameters can be adjustable				/				
Cooling	Air Cooling								
Display	HD LCD backlight display								
Protections	Input and output over/low-voltage protection, input and output anti-reverse protection, over-temperature protection, load over-current protection								
Temperature compensation coefficient	-3mV/°C/2V								
Working temperature	-20°C ~ +50°C								
Storage temperature	-40°C ~ +70°C								
Noise (dB)	≤50dB								
Humidity	0 ~ 90%RH								
Working altitude	0 ~ 3000M								
Dimension, L*W*H	219*260*110		275*348*109		219*260*110		275*348*109		
Net Weight (KG)	2.8KG		4.6KG		5.2KG		2.8KG		
specification Suggested wire specification	7AWG/10mm²	6AWG/16mm²	4AWG/25mm²	2AWG/35mm²	7AWG/10mm²	6AWG/16mm²	4AWG/25mm²	2AWG/35mm²	