



Photo for reference

Feature

- Maximum power point tracking accuracy greater than 99.5%
- Conversion efficiency up to 98%
- High-definition LCD backlight display
- Automatic voltage identification of battery system
- Multiple batteries can be customized (including lithium batteries)
- Supports remote monitoring of PC and app
- Dual RS485 communication, unified integrated management and secondary development
- Natural cooling, IP65 high protection level
- Support multiple parallel communication, unified integrated monitoring
- Multiple protection functions, over voltage and over current, reverse protection, charging protection

Technical data

Technical data	PR-MTS48-80	PR-MTS48-100
MPPT efficiency	≥99.5%	
Exchange efficiency	≤98%	
Heat dissipation	Wind flow	
Output voltage	48V	
Input PV		
PV Maximum open circuit voltage	DC 300V	
Starting charge voltage point	Higher than 10v battery voltage	
Input low voltage protection point	Higher than 5v battery voltage	
low voltage protection point	DC 300V	
Solar panel input power	4160W	5200W
Charging parameter		

Battery type Default colloidal sealed lead-acid battery	Sealed lead-acid battery (SEL) Colloidal sealed lead-acid battery (GEL) Rich liquid battery (FLD) Lithium battery (Lit) Customer define (USE)	
Rated maximum charging current	80A	100A
Temperature compensation	-3mV/°C/2V	
Charging mode	3 stage CC (Fast charging) CV (Constant voltage charging) CF (floating voltage charging)	
Output voltage accuracy	≤±0.2V	
Load parameter		
Load voltage	Same of the Battery	
Rated load current	80A	100A
Load control mode	Always on and always off Light control mode Dual period control mode Light-controlled delay mode	
Low voltage protection	10.5V (low voltage protection) 11V (low voltage recover)	
Setting mode	PC/APP/Controller	
Display and communication		
Display	LCD	
Communication	Rj45, RS485, PC software, WIFI, APP, Modbus	
Others		
Protection mode	Input/output overvoltage protection Input/output undervoltage protection Overheat protection	
Working temperature	-20℃ to +50℃	
Storage temperature	-40℃ to +75℃	
IP protection	IP65	
Cable available	50mm2	
Ref. Weight	12.8kg	
Ref. Dimension	430x350x140mm	

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