



POWERHOUSE

Reliable Power Solutions

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MPPT Solar Charge Controllers - 20A-50A

FEATURES:

- Microprocessor controlled
- MPPT technology, increase in charge current by up to 30% or more when compared to standard charge controllers
- High efficiency of 97% at full load current
- Provides longer battery life and improved system performance
- Three-stage battery charging with an equalisation charge function
- Temperature compensation sensor optional
- Charge voltage selector for different types of batteries (10 types)
- LED display for charge, discharge, battery, temperature and solar panel running statuses
- Full circuit protection and resume, with a fuse
- Overload and short circuit protection and resume when released
- Automatic current output limited when in overload or over-temperature
- Low voltage disconnect and reconnect for the DC load
- Over charge protection
- Reverse polarity protection for the solar panel and battery connections
- Lightning protection
- Reverse current protection at night
- Over-temperature protection, de-rate current first and then shut off up to 60°C
- 12V/24Vdc auto-sensing
- Parallel connection function



Model	MPPT1224-20	MPPT1224-30	MPPT1224-40	MPPT1224-50
Rated charge current	20A	30A	40A	50A
Rated load current	15A			
System Voltage	12/24V Auto-sensing			
Input Range	15-55VDC			
Max. PV open circuit array voltage	55VDC			
Typical idle Consumption	At idle < 10mA			
Bulk Charge	14.6V; 2*14.6V, 4*14.8V			
Equalising Charge	14V; 2*14V			
Float Charge	13.4V; 2*13.4V; 4*13.4V			
Over Charge Disconnect	14.8V; 2*14.8V			
Over Charge Recovery	13.6V; 2*13.6V			
Over Discharge Disconnect	10.8V; 2*10.8V			
Over Discharge Reconnect	12.3V; 2*12.3V			
Low Voltage Reconnect	12-14V; 24-28V, Adjustable			
Low Voltage Disconnect	10.5-12.4V; 21-25V, Automatic dsconnect			
Running Temperature	0°C-40°C (full load); 40°C-60°C (de-rating)			
Tropicalisation	PCB and terminals corrosion protected			
Protection Class	IP21			
Case Material	Iron			
Dimensions (L x W x H, mm)	202 x 66 x 140			
Weight	2kg			