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50A MPPT Solar Charge Controller

MODEL: RS-MPPT50P

FEATURES AND ADVANTAGE

- True MPPT, the Latest Algorithm
- Tracking Efficiency Above 99.5%
- Charge Conversion Efficiency as Higher as 98%
- 12V / 24V DC System Self-Adaptation
- Reverse Discharge Protection
- Targeted for Accurate CUSTOM Setting
- Over Voltage Protection
- Common Negative Connection
- Charging Data Storage
- Internal Bluetooth-Optional
- External Battery Temp Sensor-Optional
- Conformal Coating For Inside Board
- External Digital Remote Display-Optional
- In-house Design And Manufacture
- Extensive Internal Electronics In-Circuit Protections And Safety Protections
- Targeted For Lead Acid Batteries: Gel, AGM, WET, CRYSTAL, CALCIUM Batteries Type Selections
- Targeted For Lithium Batteries: LiFePO4, LTO (Lithium Titanium Oxide), LCO Batteries Type Selections

UNIQUE PERFORMANCE

- Splash Proof IP43
- 8+1 Battery Type Option
- Rubber Mask For Connectors Protection
- Unique Charge Management Technology For Safe And Optimized Charge
- Unique Multiple Peaks Detected Technology For Maximum Power Point Tracking
- Housing Enclosure In Patent Application
- Large and Informative LCD Display To Show Solar, Battery And Setting Parameters
- Unique Fully Discharged Battery Recovery Or Re-Start For Lead Acid or Lithium Battery
- Unique and Concise LED Bar / Transparent Windows Indications In Patent Application

SPECIFICATIONS

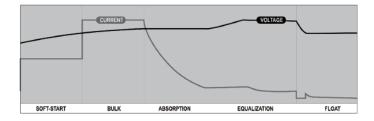
12/24V Auto		
100VOC		
МРРТ		
50A		
700 Watt (12V) / 1400 Watt (24V)		
Crystal, Gel, AGM, WET, Calcium / LCO, LFP, LTO		
Black / Grey		
IP43 for Inside PCBA, IP22 for Connection Area		
1.40kg / 3.09lb		
195*140*74 mm / 7.7*5.5*2.9 in		



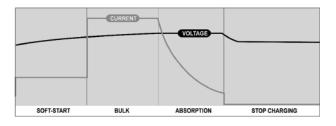


CHARGING MANAGEMENT

For Lead Acid Battery (Crystal, GEL, AGM, WET And Calcium Battery): Soft Charge – Bulk Charge – Absorption Charge – Equalizing Charge* – Float Charge



For Lithium Battery (LCO, LFP, LTO Battery): Soft Charge – Bulk Charge – Absorption Charge – Stop and Restart Charge*



LED INDICATIONS

Normal Charge

LED Indications		4				
LED Color	Green	Blue	White	White	White	White
Soft-Start	ON	Flash	Flash	OFF	OFF	OFF
Bulk Charge	ON	ON	ON	Flash	OFF	OFF
Absorption / Equalization	ON	ON	ON	ON	ON	Flash
Float Charge	ON	OFF	ON	ON	ON	ON

Abnormal Charge

Solar Panel Abnormal Mode	LCD Display	LED Indication	LCD Backlight
Solar Panel Weak <15V	/	Flash ON	ON
Solar Panel Reverse Connection	<u>= P-0 1</u>	Flash Flash	Flash
Solar Panel Over Voltage (> 95V)	<u>-02</u>	Flash Flash	Flash

Battery Abnormal Mode	LCD Display	LED Indication	LCD Backlight
Solar Panel is Connected, Battery Disconnected		B B B B	Flash
Battery Reverse Connection		B B B B	Flash
Battery Over Voltage Than > 17V	<u> </u>	B B B B Flash Flash Flash	Flash
Battery Temperature Over 65°C	<u></u> <u>-</u> в- <u></u> Ц	B B B B Flash Flash Flash	Flash
The Controller Over Temperature Protection			Flash