

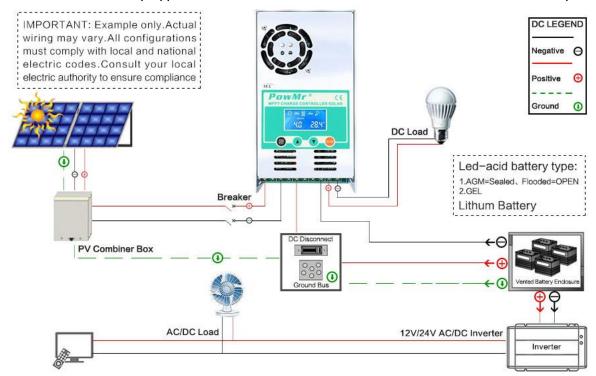
POWMC MPPT Solar Charge Controller 60A

Model: PowMr MPPT-60A



Features:

- 100% MPPT controller
- Intelligent Maximum Power Point Tracking technology
- Built-in high performance DSP controller
- Automatic 12V / 24V / 36V / 48V battery voltage detection
- Three-stage charging optimizes battery performance
- Multi-function LCD display
- Reverse polarity protection of the solar panel
- Overload protection
- It can be mounted easily
- Suitable for the battery types of sealed lead acid, Ventilated Gel, and Lithium battery



Technical Parameters:

Changing mathed	ADDT DECLIF ATOD tracking of Marriagnan payment automatically
Charging method	MPPT REGULATOR tracking of Maximum power point automatically
Charging	3-phase: constant current (MPPT), constant voltage (Voltage
System type	Draw), floating charge
System type	DC12V / 24V / 36V / 48V Recognition automatically
Automotic valtors reconition	12V system (DC9V-DC15V)
Automatic voltage recognition	24V system (DC18V-DC29V)
system	36V system (DC30V-DC39V)
Soft start time	48V system (DC40V ~ DC60V) ≤15
·	113
Dynamic response and recovery	100us
time	> 00.1% (Ves. in 1.5 on 2 times of bottom, then it is the best
Efficiency Max	≥ 98.1% (Voc is 1.5 or 2 times of battery, then it is the best
PV of use	efficiency) ≥ 99%
	2 77 10
Input specification Voc from PV	
(Make sure the Voc of PV meeting	12V system (DC20V ~ DC80V)
the requirement as right. Voc is	24V system (DC37V ~ DC105V)
1.5 or 2 times of battery then it is	36V system (DC50V ~ DC160V)
the best efficiency.)	48V system (DC72V ~ DC160V)
The best efficiency.	NC100V (The controller controller to the state of the sta
I and the second	LIVING IN LINE CONTROLLER CONNOT WORK AT THIS JONG-JASTING VOITAGE
The maximum input voltage PV	DC190V (The controller cannot work at this long-lasting voltage which will break controller. Please refer to the Input voltage from
The maximum input voltage PV (Voc)	which will break controller. Please refer to the Input voltage from
(Voc)	which will break controller. Please refer to the Input voltage from PV.)
(Voc) Maximum PV input power	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W)
(Voc) Maximum PV input power (The total rated power of PV	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W)
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(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W)
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(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage
(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed)	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user)
(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries
(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries
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(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries 12V system (15V) 24V system (30V)
(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries 12V system (15V) 24V system (30V) 36V system (45V)
(Voc) Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage Overload protection voltage	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries 12V system (15V) 24V system (30V) 36V system (45V) 48V system (60V)
Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage Overload protection voltage Rated output current	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries 12V system (15V) 24V system (30V) 36V system (45V) 48V system (60V) 60A ± 0.02% / centi-degrees
Maximum PV input power (The total rated power of PV cannot be more than this watt which will break the controller.) Output specification Selectable battery type (default is Sealed) Charging Voltage Absorption Float Charging Voltage Overload protection voltage Rated output current Temperature coefficient	which will break controller. Please refer to the Input voltage from PV.) 12V system (720W) 24V system (1440W) 36V system (2100W) 48V system (2800W) Ventilated / Sealed / Gel / NiCd / Lithium battery (defined voltage for other battery by user) Refer to Reference Charging Batteries Refer to Reference Charging Batteries 12V system (15V) 24V system (30V) 36V system (45V) 48V system (60V) 60A

Accurate output voltage	≤ ± 1%
Anti-intrusion protection input	Yes
Temperature protection	75 ° C
Temperature for increased	Output power will reduce when it is more than 70°C
protection	Output power will be normal when it is less than 55°C
Fan-temperature	> 40 ° C
Fan-off temperature	< 35 ° C
Acoustic noise	≤ 40dB
Cooling way	Forced air cooling
Environmental requirements	Meet the 2002/95 / EC; Cadmium No, hydrides and fluorides
Security Level	According to CE, PSE, FCC, EMC, EN60950
Electromagnetic compatibility	According to EN61000, EN55022, EN55024
Protection	IP20
Net weight	1.1Kg

Tips:

- 1. Always connect battery first! Make sure enough batteries' voltage let controller recognize the right system voltage.
- 2. DO NOT connect any Inverter/wind/Alternator or Charger into the charge controller! Connect the Inverter directly to the battery.
- 3. Ensure solar input voltage 3V or more than batteries' voltage and total input power in the range. If input power is too low for max input power, it may be appears to have been discontinued, the charging current almost be zero when controller is floating charge.
- 4. Parameter Setting Rules: Floating voltage > Low voltage reconnect > Low voltage discharge.
- 5. The solar controller will stop output when the battery under 10.7V. The LCD will be blank when the battery under 8V and it will re-output when the battery up to the 12.6V (adjustable).
- 6. Install the Charger controller to the battery as close as possible. Tighten the wire.
- 7. When controller makes buzzing sound, this is because it's working hard to dissipate heat for your controller. Rest your heart, it will be stop when temperature return to normal.
- 8. Remove all the debris around the controller (leaving a space of approx. 5.91in).

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