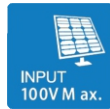


Valen 12V/24V 30A MPPT



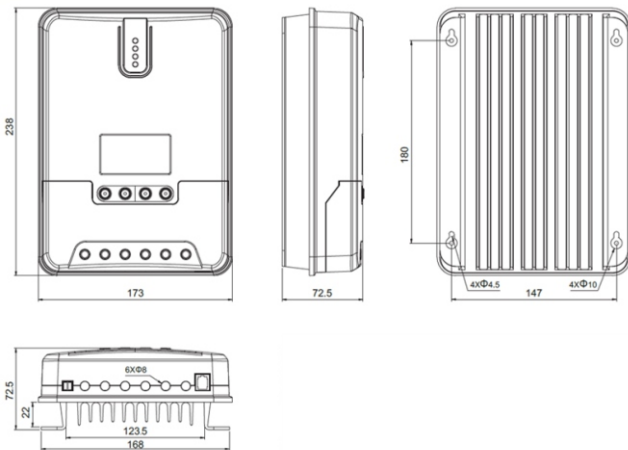
The Valen MPPT 30A can keep monitoring the solar panel's generating power and tracking the highest voltage and current values in real time, enabling the system to charge the battery in maximum power. It's designed to be used in off-grid solar photovoltaic systems to coordinate operation of the solar panel, battery and load, functioning as the core control unit in off-grid photovoltaic systems.

The Valen MPPT 30A features an LCD screen which can dynamically display the operating status, operating parameters, controlling logs, control parameters, etc. Users can conveniently check parameters by the keys, and modify control parameters to cater to different system requirements.

The controller utilises standard Modbus communication protocol, making it easy for users to check and modify system parameters on their own. By providing free monitoring software, users are given the maximum convenience to satisfy their varied needs for remote monitoring. With comprehensive electronic fault self-detecting functions and powerful electronic protection functions built inside the controller, component damage caused by installation errors or system failures can be avoided to the greatest extent possible.

SPECIFICATIONS

System Voltage	Automatic recognition of 12V/24V
No-load Loss	0.7W to 1.2W
Battery Voltage	9V to 35V
Max. Solar Input Voltage	100V (25°C) 90V (-25°C)
Max. Power Point Voltage Range	Battery Voltage +2V to 75V
Rated Charging Current	30A
Rated Load Current	20A
Max. Capacitive Load Capacity	10000uF
Max. Photovoltaic System Input Power	400W/12V 800W/24V
Conversion Efficiency	≤ 98%
MPPT Tracking Efficiency	> 99%
Temperature Compensation Factor	-3mV/°C/2V (default)
Operating Temperature	-35°C to +45°C
Protection Degree	IP32
Weight	2kg
Communication Method	RS232
Altitude	≤ 3000m
Product Dimensions	238 x 173 x 72.5 (mm)



Battery Type Parameters Voltage to Set Battery Type

	AGM Battery	Gel Battery	Wetcell Battery	User (Self-Customised)
Over-voltage Cut-off Voltage	16.0V	16.0V	16.0V	9 - 17V
Equalising Voltage	14.6V	---	14.8V	9 - 17V
Boost Voltage	14.4V	14.2V	14.6V	9 - 17V
Floating Charging Voltage	13.8V	13.8V	13.8V	9 - 17V
Boost Return Voltage	13.2V	13.2V	13.2V	9 - 17V
Low-voltage Cut-off Return Voltage	12.6V	12.6V	12.6V	9 - 17V
Under-voltage Warning Return Voltage	12.2V	12.2V	12.2V	9 - 17V
Under-voltage Warning Voltage	12.0V	12.0V	12.0V	9 - 17V
Low-voltage Cut-off Voltage	11.1V	11.1V	11.1V	9 - 17V
Discharging Limit Voltage	10.6V	10.6V	10.6V	9 - 17V
Over-discharge Time Delay	5s	5s	5s	1 - 30s
Equalisation Charging Duration	120 minutes	---	120 minutes	0 - 600 minutes
Equalisation Charging Interval	30 days	0 days	30 days	0 - 250D
Boost Charging Duration	120 minutes	120 minutes	120 minutes	10 - 600 minutes

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End-to-End Solution Provider of
Industrial Batteries & Energy Storage