

M220DW

12/24V 20A MPPT CONFIGURABLE OUTPUT SOLAR CHARGE REGULATOR



The **M220DW** photovoltaic charge controller allows for the independent charging of one or two 12V or 24V batteries using the MPPT algorithm.

The two battery charging outputs can be configured for use with different battery types and different voltages. Furthermore, the second battery output has the ability to limit the charging current to manage small batteries or to perform a maintenance charge (e.g., engine battery maintenance charge).

Connectivity & Control

The controller features WiFi communication, enabling both configuration and operational monitoring. The WiFi connection also allows for remote monitoring of the controller.

The controller is equipped with an RS485 port with MODBUS protocol for connecting, configuring, and monitoring multiple controllers. A configurable digital input and a relay output complete the features of this charge controller.

Configuration of all device functions is done via RS485 commands or through a simple and intuitive WEB interface, which also provides access to a history page displaying values from the last 30 days.

Sede legale

Via Scorcola, 2 34134
Trieste – ITALY
P.IVA - C.F 01346940321

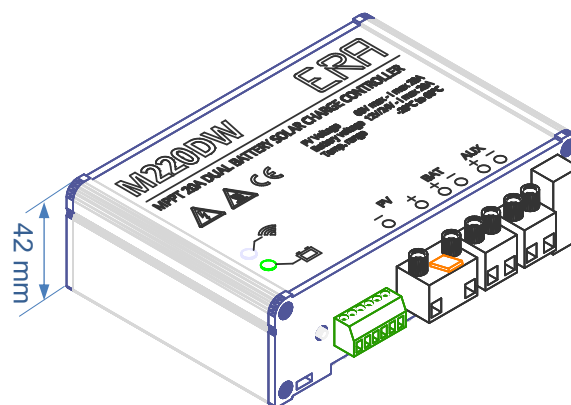
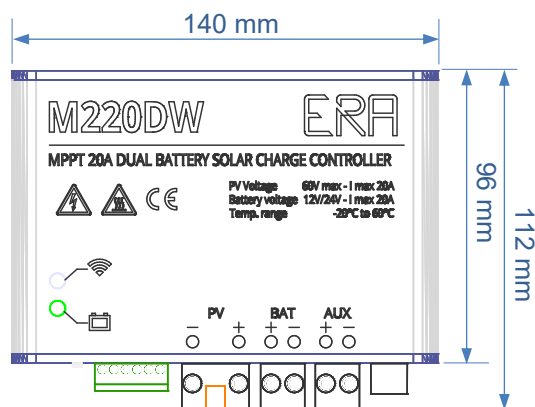
Sede operativa

c/o BIC Incubatori FVG
Via del Follatoio 12, 34148
Trieste – ITALY

Contatti

tel. +39 040 8992432
mail: info@era-electronics.eu
<http://www.era-electronics.eu>

Dimensions



Electrical characteristics		Battery voltage 12V			Battery voltage 24V		
		min	default	max	min	default	max
Battery voltage range	V _{batt}	9V		18V	19V		34V
Module open circuit voltage	V _{oc}	15V		60V	27V		60V
Maximum charge current	I _{mp}			20A			20A
Module power	P _{max}			300W			600W
Charge voltage at 25°C - AGM profile (adjustable)	V _{crg}		14,4V		28,8V		
Charge voltage at 25°C - FLOOD profile (adjustable)	V _{crg}		14,8V		29,6V		
Charge voltage at 25°C - Lithium profile (adjustable)	V _{crg}		14,2V		24,8V		
Temp V _{crg} compensation (adjustable)	V _{adj}	0	mV/°C/cell	-8	0	mV/°C/cell	-8
Self consumption	I _{sleep}		5,7mA		3,5mA		
Operating temperature	T _{amb}	-20°C		+60°C	-20°C		+60°C
Cable sizes		1mmq		6mmq	1mmq		6mmq
Protection degree		IP20					
Weight		580 g					

