Euro-MPPT 40A

EURONET MPPT CHARGE CONTROLLER – 40A

MPPT Solar Charge Controller | 12/24/36/48V Auto



RATED CHARGE CURRENT **40A**	SYSTEM VOLTAGE **12/24/36/48V**
MAX PV VOLTAGE (VOC) **<150V**	CHARGE METHOD **MPPT**
DISPLAY **Colour LCD**	COOLING **Forced air**

OVERVIEW

The EURONET Euro-MPPT 40A is an MPPT solar charge controller for small to mid-size off-grid and hybrid solar systems. It detects 12V, 24V, 36V or 48V battery banks automatically, delivers up to 40A of charge current and accepts PV open-circuit voltages below 150V for flexible string design. A colour LCD with button control shows real-time charging data and lets you adjust the charging parameters, while temperature compensation, forced-air cooling and protection against overcharge, over-discharge, overload, short circuit and reverse polarity keep the system safe. An RS485/RJ45 port is standard and Bluetooth is optional.

KEY FEATURES

MPPT Tracking
Tracks the PV maximum power point with up to 99% accuracy as sunlight and temperature conditions change

Auto 12/24/36/48V Detection
Automatically detects and works with 12V, 24V, 36V or 48V battery banks for flexible installation

Wide PV Input
Accepts PV open-circuit voltage below 150V (138V at 25°C) for versatile, higher-voltage PV strings

Multi-Stage Charging
MPPT, absorption, float and equalisation stages, up to 97% charging efficiency, adjustable settings

Comprehensive Protection
Protects against overcharge, over-discharge, overload, short circuit and reverse polarity

Colour LCD & Communication
Backlit colour LCD with 3 buttons, RS485/RJ45 port as standard and optional Bluetooth monitoring

TECHNICAL NOTE

Rated charge current 40A, rated load current 20A; system voltage 12/24/36/48V (auto); max. PV open-circuit voltage <150V (138V at 25°C). MPPT charging with up to 99% tracking accuracy and 97% max. charging efficiency, colour LCD, adjustable parameters, temperature compensation and forced-air cooling. RS485/RJ45 port, Bluetooth optional. Product size 220×200×83mm (Ø5 mounting holes). Packaging: 8 pcs/carton, 20.2kg.

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Euro-MPPT 40A

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	Euro-MPPT 40A
Series	Euro-MPPT Series
Charge Method	MPPT
System Voltage	12/24/36/48V (auto detection)
Rated Charge Current	40A
Rated Load (Discharge) Current	20A
Self-consumption	≤35mA (48V)
PV INPUT	
Max. PV Open-circuit Voltage	<150V (at lowest temperature)
Max. PV Voc at 25°C	138V
CHARGING	
Charging Mode	Multi-stage: MPPT, absorption, float, equalisation, CV
MPPT Tracking Accuracy	Up to 99%
Max. Charging Efficiency	97%
Charging Parameters	Adjustable
Temperature Compensation	Yes
Temperature Probe	10K, 3m lead
DEFAULT SETTINGS (12V / 24V / 36V / 48V)	
Float Charge	13.8V / 27.6V / 41.4V / 55.2V
Absorption Charge	14.4V / 28.8V / 43.2V / 57.6V
Equalisation Charge	14.6V / 29.2V / 43.8V / 58.4V
Load Disconnect (LVD)	10.8V / 21.6V / 32.4V / 43.2V
Load Reconnect (LVR)	12.6V / 25.2V / 37.8V / 50.4V
BATTERY TYPES	
Lead-acid	GEL, SLD, FLD, USR (default)
Lithium	Customisable: 3S / 4S 3.7V, 4S / 5S 3.2V

PARAMETER	SPECIFICATIONS
LOAD CONTROL	
Load Control Modes	Normal, light, light + timer, reverse light
Light Control Point Voltage	5V / 10V / 15V / 20V
PROTECTION	
Overcharge	Yes
Over-discharge	Yes
Overload	Yes
Short Circuit	Yes
Reverse Polarity	Yes
INTERFACE & COMMUNICATION	
Display	Colour LCD with backlight
Controls	3 buttons
Communication	RS485 / RJ45 port
Bluetooth	Optional
PHYSICAL & ENVIRONMENTAL	
Product Size	220 × 200 × 83 mm
Mounting Holes	Ø5
Net Weight	2500g
Cooling	Forced air: aluminium alloy heat sink + fan
Wiring Terminals	Copper, ≤25mm² (3AWG)
Operating Temperature	-20°C to +55°C
Storage Temperature	-30°C to +80°C
Humidity	10%–80%, non-condensing
PACKAGING	
Units Per Carton	8 pcs
Carton Weight	20.2kg
Carton Size	590 × 480 × 300 mm
Carton Volume	0.08CBM
CERTIFICATION	
Marks	CB · CE · IEC compliant

**Specifications are subject to change without prior notice.*

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