

## SOLAR-CMP40AN

40A MPPT Solar Charge Controller with RS485 Remote Control and Cloud Access



SOLAR-CMP40AN is Linovision's new generation of MPPT solar charge/discharge controller, optimized for solar trailers, RV and outdoor applications. It features adaptive 3-stage charging mode, which can maximize the use of PV power and prolong the battery life. It also includes an constant voltage output function, ensuring comprehensive and user-friendly compatibility with various lithium batteries. Under certain conditions, the PV system can directly power loads without a battery. Its excellent low power consumption design significantly reduces standby power, extending system standby time.

### **Outstanding Features**

- Constant voltage output function
- Maximum DC/DC conversion efficiency of 98%
- Advanced MPPT technology, with Max. tracking efficiency higher than 99.5%
- Supports multi battery types, including Lead acid AGM batteries, Gel batteries, LiFePO4 batteries and other Lithium batteries.
- Battery temperature compensation;
- Stable self-activation function
- LCD screen for battery parameter setting
- Comprehensive electronic protection
- Self-consumption lower than 10mA
- Multiple load work modes
- Parameter setting via the PC software, APP, or remote meter
- RS485 communication output, works with IOT-R51W, IOT-R32W, IOT-C101 and other RS485 gateways for remote monitoring and control.

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## Specification

SOLAR-CMP40AN				
Electrical Parameters				
Battery Rated Voltage	12/24V DC (Auto-Recognition)			
Rated Charging Current	40A			
Rated Discharge Current	40A			
Controller Work Voltage Range	8 to 31V			
PV Max.Open-circuit Voltage	92V/25℃ (92V/77°F)			
MPPT Voltage Range	(Battery voltage +2V)~72V			
Rated Charging Power	520W/12V 1040W/24V			
Static Losses	≤8mA(12V) ≤5mA(24V)			
Discharge-circuit Voltage Drop	≤0.23∨			
Default Temperature Compensation	-27mV/°F/2V(-3mV/°C/2V)			
Default LCD Backlight Time	60S, Range:0~999S (0 seconds: the backlight is ON all the time)			
Environmental parameters				
Work Temperature Range	-13°F to +113°F(-25°C to +45°C)(100% loads working)			
Storage Temperature Range	-4°F to +158°F(-20°C to +70°C)			
Relative Humidity	< 95% (N.C.)			
Enclosure	IP30			
Dimension (L x W x H)	9.92×7.08×2.48"(252×180×63mm)			
Mounting Size (L x W)	8.03×6.73"(204×171mm)			
Mounting Hole Size	Ф0.196″(Ф5mm)			
Terminal	6AWG(16mm <sup>2</sup> )			
Recommended Wire Size	6AWG(16mm <sup>2</sup> )			
Net Weight	3.63lb(1.65kg)			

### Interface

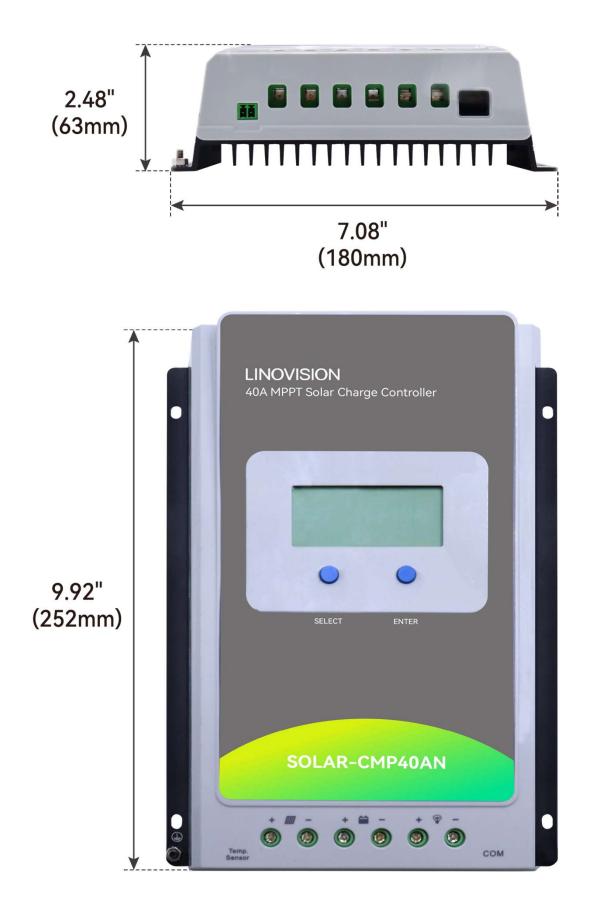


#### Figure 1-1 Product Characteristics

0	SELECT button	6	RS485 port (no isolation)
0	RTS interface	Ø	Mounting Hole Φ5mm
8	PV Terminals	8	ENTER button
0	Battery terminals		LCD
6	Load terminals	9	

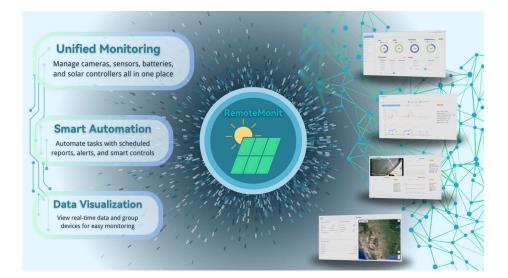
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Dimension



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#### **Cloud Platform Accessories**





IOT-C101

### Dual Ports Serial Server

RS485 and RS232 to RJ45 Convertor

 Integrate your SOLAR-CMP40AN and RS485 devices with Ethernet

• Wall and rail mountable, IP30 protection, wide operating temperature from -40°F to 185°F



IOT-R51W

## Virtual SIM 4G Cellular Router

Industrial 4G LTE Cellular Router

·Virtual SIM free technology without physcial SIM

 $\cdot \operatorname{Various}$  and affordable data plan options

·Global coverage including USA, Canada, UK, Europe, Japan and so on



IOT-R32W

## Industrial 4G Cellular Router

### 4G LTE CAT4 ROUTER

 $\cdot$  Dual SIM card slots, backup between two cellular network

• Ensure highly reliable connectivity by automatic failover among local LAN, cellular and WiFi networks

·Industrial design for harsh environment