



MPPT Solar Charge Controller

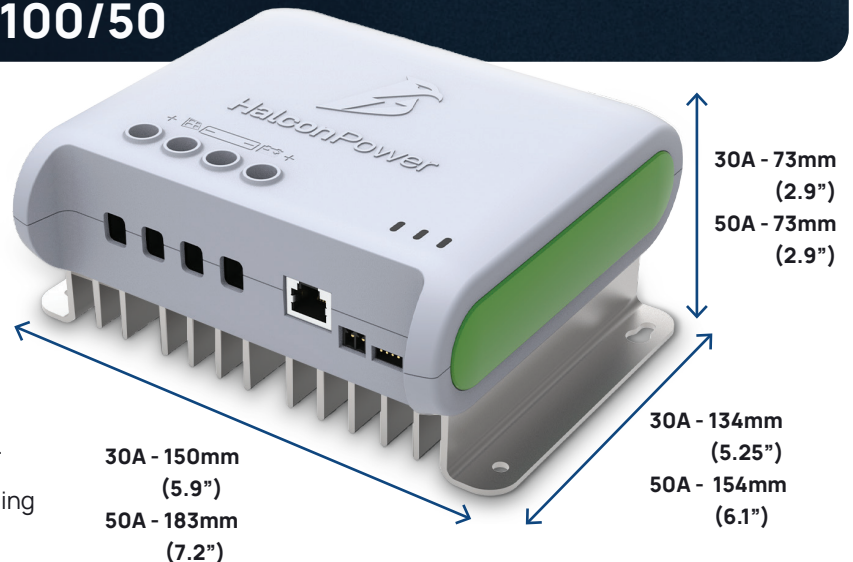
(100V, 30A / 50A MPPT)

HALMPPT100/30 & HALMPPT100/50

This reliable, space-saving solar charger can support solar panels in series and in parallel.

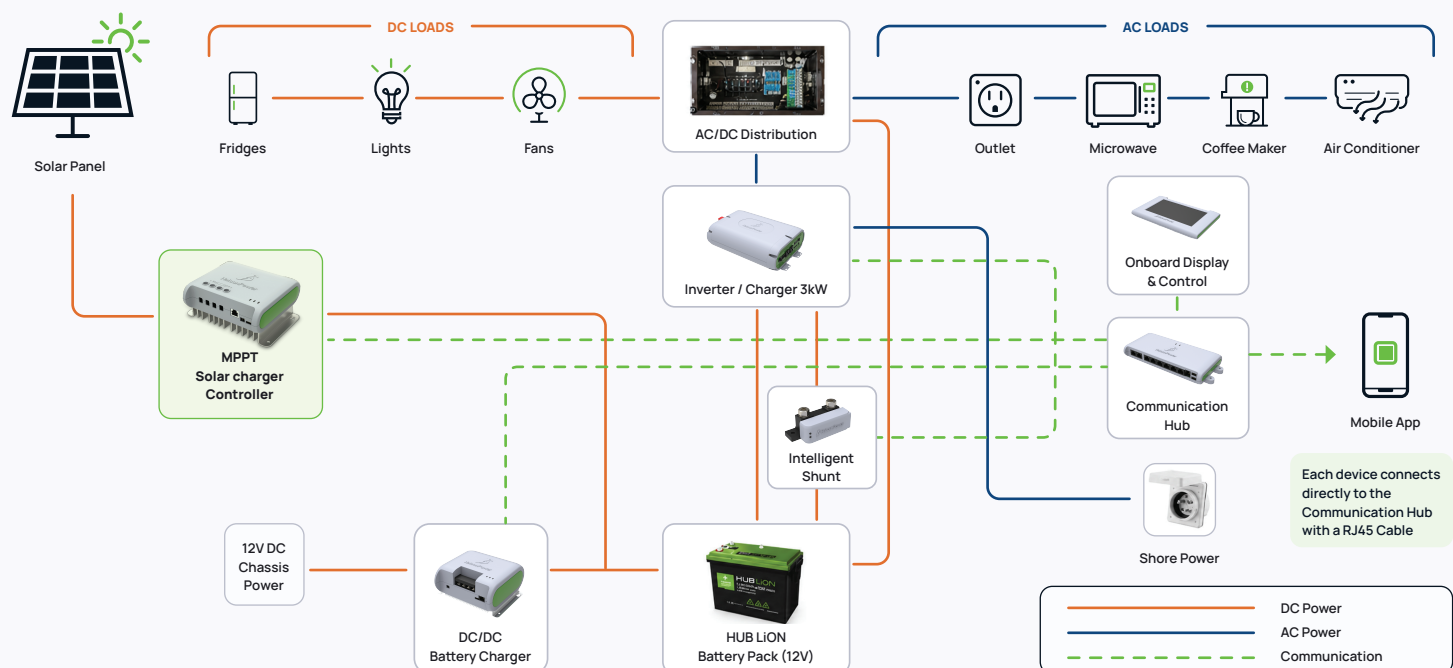
Key Features:

- **Built-in Bluetooth:** Supports Bluetooth via mobile app.
- **Small footprint:** Saves space and easy installation.
- **Multi-Applications:** Off-grid and mobile solar applications.
- **Multi-chemistry charging:** Flooded, GEL, AGM, and Lithium.
- **Dual Voltage Output:** 12V / 24V DC output for battery charging
- **Communication options:** Supports standard TTL (Modbus) communication & CAN (RV-C).
- **3 year Product Warranty**



System Integration

Every Halcon Power product is designed as part of a fully integrated energy ecosystem, helping simplify implementation and deliver reliable system performance.



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Technical Specifications

Specifications	Product Details	Product Details
General		
Model	HALMPPT100/30	HALMPPT100/50
Battery Voltage	12V / 24V	12V / 24V
Rated Charge Current	30A	50A
Nominal PV Power	400W / 800W	660W / 1320W
Maximum PV Open Circuit Voltage	100V DC	100V DC
Maximum Efficiency	< =98%	< =98%
Battery Voltage Range	9V - 32V	9V - 32V
Battery Type	FLD / GEL / LI / SLD / CUSTOM	FLD / GEL / LI / SLD / CUSTOM
Charge & Discharge		
Charge Voltage Absorption Default Setting	14.4V	14.4V
Charge Voltage Float Default Setting	13.7V	13.7V
Charge Algorithm	Multistage / buck	Multistage / buck
Physical		
Dimension (L x W x H)	150 x 134 x 73mm (5.9" x 5.25" x 2.9")	183 x 154 x 73mm (7.2" x 6.1" x 2.9")
Net Weight	1.04 kg (2.3 lb)	1.3 kg (2.94 lb)
Installation	Wall mount or floor mount	Wall mount or floor mount
Warranty	3 years	3 years
Environmental		
Operating Temperature	-35°C to 65°C (-31°F to 149°F)	-35°C to 65°C (-31°F to 149°F)
Noise	Silent	Silent
Cooling Method	Natural Convection	Natural Convection
IP Protection	IP32	IP32
Built-in Protections	Battery over-volt	Battery over-volt
Communication	TTL, CAN, RV-C	TTL, CAN, RV-C
Data Storage (# of Days of Data Stored)	9 days	9 days
Other		
Safety	cETLus	cETLus