

MPPT Charge Controllers - 120Vdc

E24™

P133E



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For off-grid or Hybrid solar projects, charge controllers are required to charge batteries from the PV panels.

E24 offers a range of Charge Controllers in various DC voltages from 48Vdc to 240Vdc. This brochure describes the range of charge controllers operating in 120Vdc.

Product Description

E24 Offers charge controllers in various voltages in order to be compatible with 48V, 72V, 120V and 240Vdc systems.

The MPPT Charge controller 120Vdc Series is designed to charge batteries in 120Vdc configurations (10 battery blocs in Series).

The charge controllers are heavy duty and designed to operate in high ambient temperature thanks to a large aluminium heatsink installed at the back of the unit (Fig1).

The units use a large internal inductor allowing the unit to operate in MPPT mode (Maximum Power Point Tracking) allowing the charger to constantly optimize energy conversion efficiency.

The controller is fit with an RS485 connection allowing it to communicate with the E24 central controller.



Fig.1: Front, Rear and bottom view of the MPPT Charge Controller

Installation Configurations

It is possible to use 1 Charge controller to charge 1 set of 120Vdc batteries or 2 charge controllers to charge 2 sets of 120Vdc batteries in series as per Fig.2.

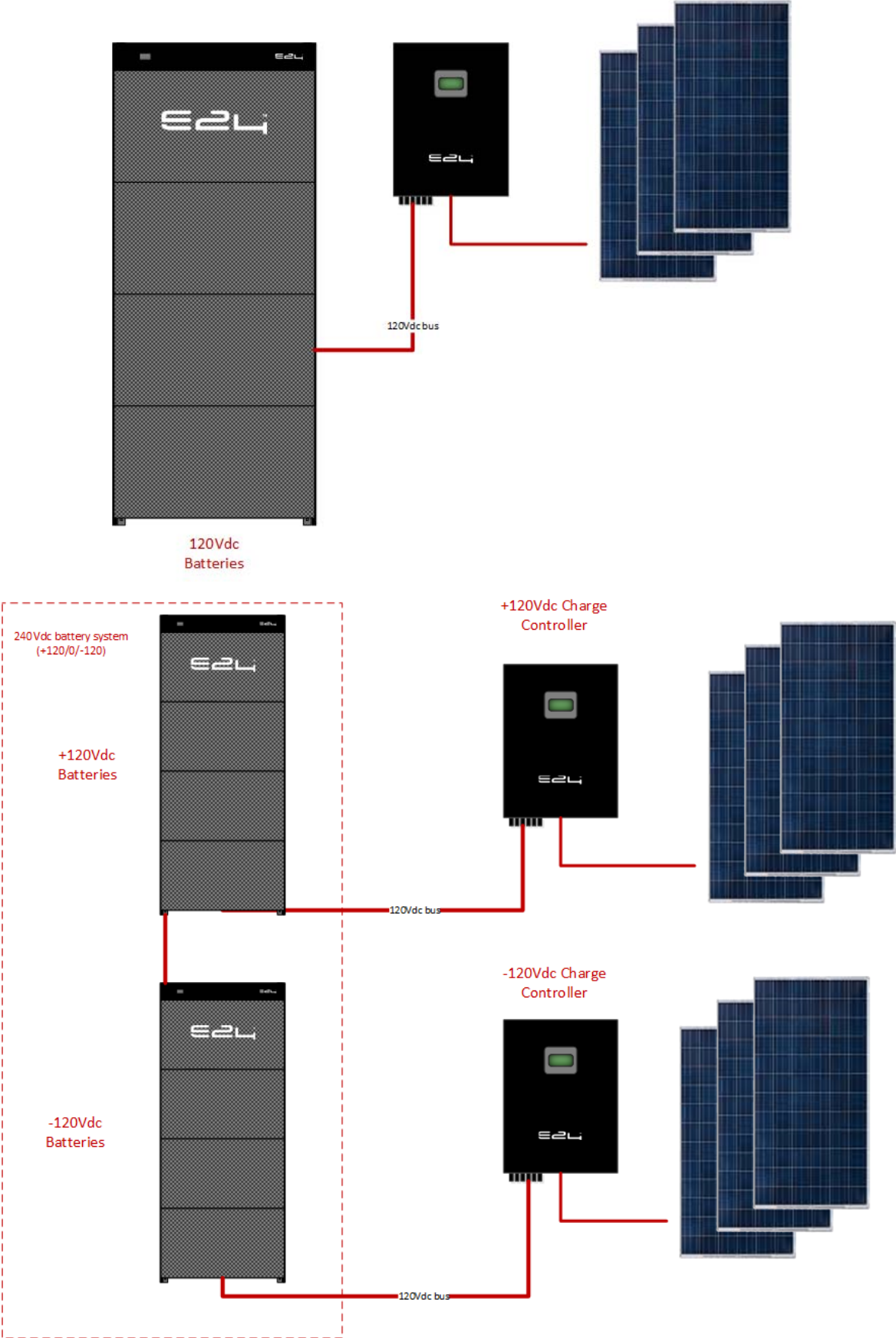


Fig.2: Possible Installation Configurations

Specifications

	Model	PVCC-120-20M	PVCC-120-30M	PVCC-120-40M	PVCC-120-60M	PVCC-120-70M	PVCC-120-80M	PVCC-120-100M	
Power	DC Current (A)	20	30	40	60	70	80	100	
	Technology								MPPT
	Efficiency								>98%
	# Batteries (12V blocs)								10
	DC Voltage range (Vdc)								90-162
	Cooling								Smart Fan Cooling
PV Input	PV Open Circuit (Vdc)								350
	PV Start Charging (Vdc)								140
	PV Low Voltage Cutoff (Vdc)								130
	PV High Voltage Cutoff (Vdc)								350
	Rated PV Power (W)	3750	5625	7500	11250	13125	15000	18750	
Charging	Battery Type	SLA, Gel, Flooded, lithium							
	Charging Current (A)	20	30	40	60	70	80	100	
	Charging Method	0 stages (constant current, constant voltage , Float)							
Operation	Display	LCD 128x64 dots with backlight							
	Communication	RS 485							
Other	Protection	Input and Outp Input and Outp Input and Output Overvoltage and Under Voltage, Rever polarity							
	Operating Temperature (°C)								-20 to +50
	Storage Temperature (°C)								-40 to +75
	IP Protection								IP54
	Weight (Kg)						21	26	
	Product Dimensions (mm)	740x440x300					740x540x350		
	Packing Size (mm)	840x540x350					840x590x400		

Hybrid



Storage Inverter



Battery



E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.

Ordering Information

Ref Number	Description
PVCC-120-20M	MPPT Charge Controller for 120Vdc, 240Voc, 20A, 3.7KWp
PVCC-120-30M	MPPT Charge Controller for 120Vdc, 240Voc, 30A, 5.6KWp
PVCC-120-40M	MPPT Charge Controller for 120Vdc, 240Voc, 40A, 7.5KWp
PVCC-120-60M	MPPT Charge Controller for 120Vdc, 430Voc, 60A, 6.5KWp
PVCC-120-70M	MPPT Charge Controller for 120Vdc, 430Voc, 70A, 7.3KWp
PVCC-120-80M	MPPT Charge Controller for 120Vdc, 430Voc, 80A, 8.3KWp
PVCC-120-100M	MPPT Charge Controller for 120Vdc, 430Voc, 100A, 10.4KWp

E24®

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ISO 9001:2015



QUALITY STANDARD

