EasySolar 24V and 48V, 3000VA

The all-in-one solar power solution

www.victronenergy.com

All-in-one solar power solution

The EasySolar combines two MPPT solar charge controller and an inverter/charger in one enclosure.
The product is easy to install, with a minimum of wiring.

Two solar charge controllers: 2x Blue Solar MPPT 100/50, 0r 2x Blue Solar MPPT 150/35

Up to six strings of PV panels can be connected to six sets of MC4 (PV-ST01) PV connectors.

The inverter/charger: MultiPlus Compact 24/3000/70-50 or 48/3000/35-50

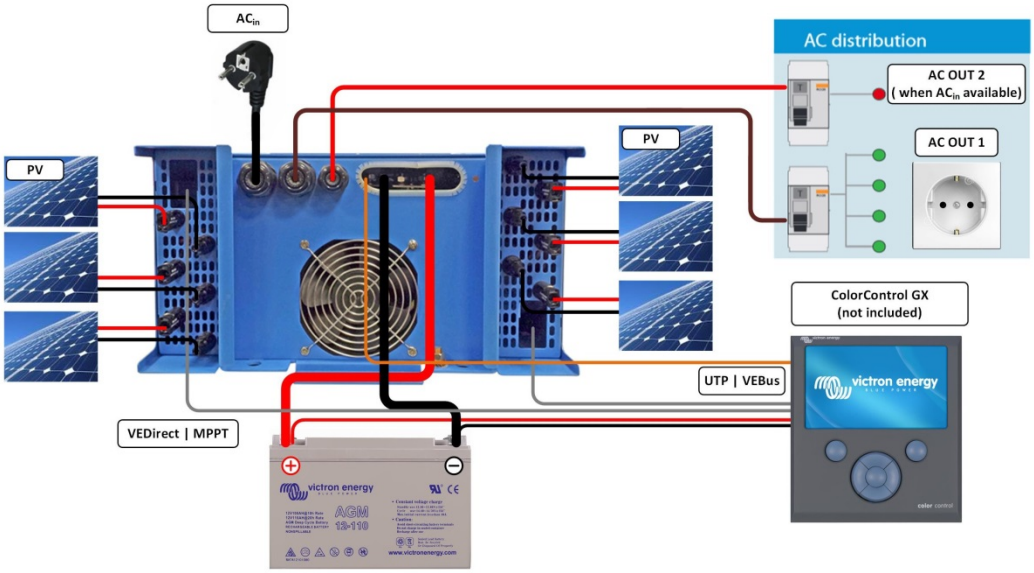
The MPPT charge controllers and the MultiPlus inverter/charger share the DC battery connection. The batteries can be charged with solar power (2x BlueSolar MPPT) and/or with AC power (inverter/charger) from the utility grid or a genset.

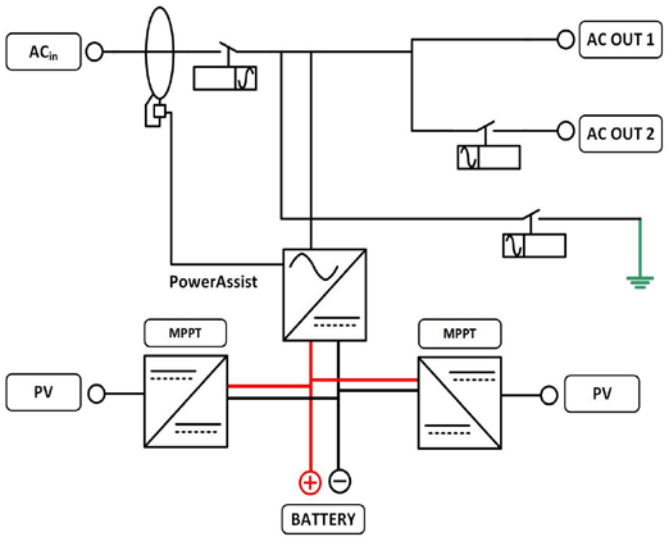
PowerAssist

Unique PowerAssist technology protects the utility or generator supply from being overloaded by adding extra inverter power when needed.

Unique solar application software

Several software programs (Assistants) are available to configure the system for various grid interactive or stand-alone applications. Please see http://www.victronenergy.nl/support-and-downloads/software/





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EasySolar	EasySolar 24/3000/70-50	EasySolar 48/3000/35-50
Inverter/charger		
Transfer switch	50 A	
INVERTER		
Input voltage range	19 - 33 V	38 – 63 V
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1)	
Cont. output power at 25 °C (3)	3000 VA / 2500 W	
Cont. output power at 40 °C	2200 W	
Peak power	6000 W	
Maximum efficiency	94%	95%
Zero-load power	15 W	16 W
Zero load power in search mode	5 W	5 W
CHARGER		
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz Power factor: 1	
Charge voltage 'absorption'	28,8 V	57,6 V
Charge voltage 'float'	27,6 V	55,2 V
Storage mode	26,4 V	52,8 V
Charge current house battery (4)	70 A	35 A
Charge current starter battery (A)	4	
Battery temperature sensor	yes	
Programmable relay (5)	yes	
Protection (2)	a - g	
Solar Charge Controller		
Model	2x MPPT 100/50	2x MPTT 150/35
Maximum output current	2x 50 A	2x 35 A
Maximum PV power, 6a,b)	2x 1400 W	2x 2000 W
Maximum PV open circuit voltage	100 V	150 V
Maximum efficiency	98 %	
Self-consumption	10 mA	
Charge voltage 'absorption', default setting	28,8 V	57,6 V
Charge voltage 'float', default setting	27,6 V	55,2 V
Charge algorithm	multi-stage adaptive	
Temperature compensation	-16 mV / °C	-32 mV / °C
Protection	a - g	
COMMON CHARACTERISTICS		
Operating temp. range	-20 to +50°C (fan assisted cooling)	
Humidity (non condensing):	max 95%	
ENCLOSURE		
Material & Colour	aluminium (blue RAL 5012)	
Protection category	IP 21	
Battery-connection	Four M8 bolts (2 plus and 2 minus connections	
230 V AC-connectio	Screw terminals 13 mm² (6 AWG)	
PV connection	Six sets of MC4 (PV-ST01) PV connectors.	
Weight	21 kg	
Dimensions (hxwxd)	362 x 374 x 218 mm	
STANDARDS		
Safety	EN 60335-1, EN 60335-2-29, EN 62109, IEC 62109	
Emission / Immunity	EN55014-1, EN 55014-2, EN 61000-3-3	

1) Can be adjusted to 60Hz and to 240V
2) Protection
a. Output short circuit
b. Overload
c. Battery voltage too high
d. Battery voltage too low
e. Temperature too high
f. 230VAC on inverter output
g. Input voltage ripple too high

3) Non linear load, crest factor 3:1
4) At 25 °C ambient
5) Programmable relay which can a. o. be set for general alarm, DC undervoltage or genset start signal function
6a) If more PV power is connected, the solar charge controllers will limit input power to 1400W resp. 2000W
6b) PV voltage must exceed Vbat + 5V for the controller to start. Thereafter minimum PV voltage is Vbat + 1V

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