

EasySolar 24V and 48V, 3000VA

The all-in-one solar power solution



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, or 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

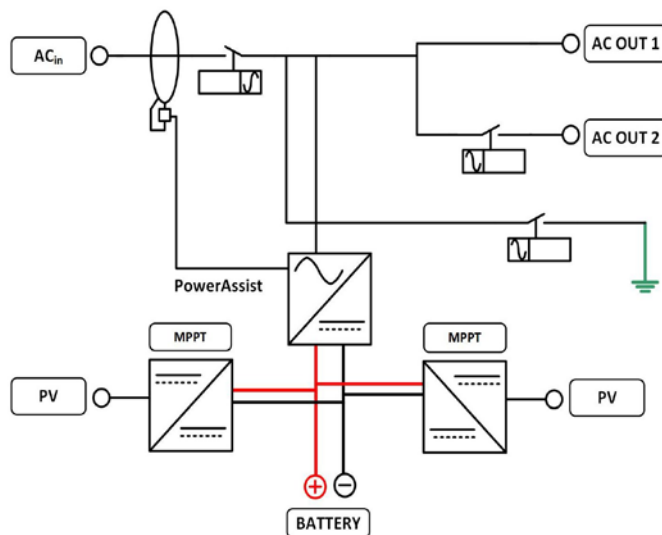
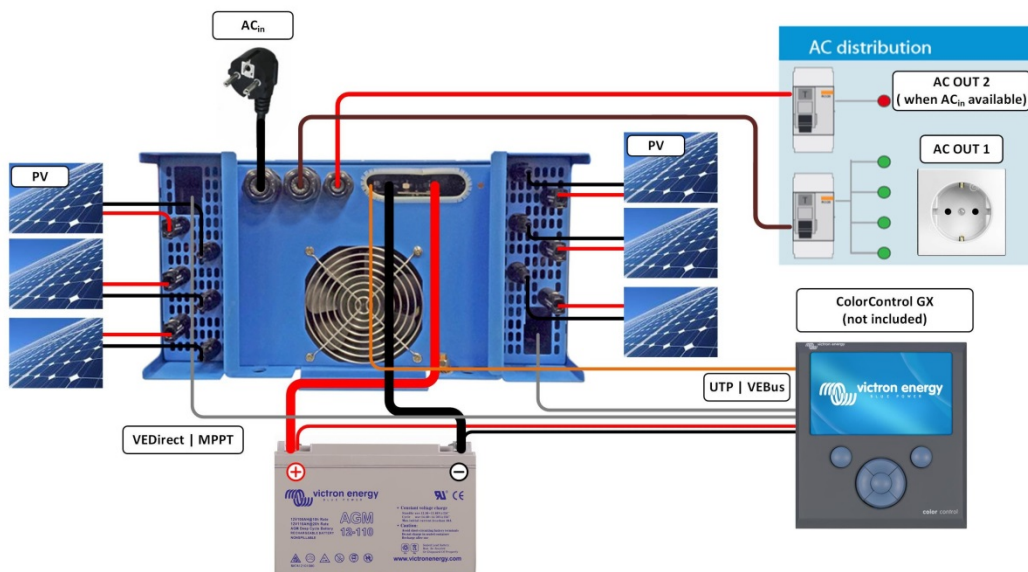
The MPPT charge controllers and the MultiPlus inverter/charger share the DC battery connection. The batteries can be charged with solar power (2x BlueSolar MPPT) and/or with AC power (inverter/charger) from the utility grid or a genset.

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.



EasySolar	EasySolar 24/3000/70-50	EasySolar 48/3000/35-50
Inverter/charger		
Transfer switch	50 A	
INVERTER		
Input voltage range	19 - 33V	38 – 63V
Output	Output voltage: 230 VAC ± 2% Frequency: 50 Hz ± 0,1% (1)	
Cont. output power at 25°C (3)	3000VA / 2500W	
Cont. output power at 40°C	2200W	
Peak power	6000W	
Maximum efficiency	94%	95%
Zero load power	15W	16W
Zero load power in search mode	5W	5W
CHARGER		
AC Input	Input voltage range: 187-265 VAC Input frequency: 45 – 65 Hz Power factor: 1	
Charge voltage 'absorption'	28,8V	57,6V
Charge voltage 'float'	27,6V	55,2V
Storage mode	26,4V	52,8V
Charge current house battery (4)	70A	35A
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 MPPT 150/35
Maximum output current	2x 50A	2x 35A
Maximum PV power, 6a,b)	2x 1400W	2x 2000W
Maximum PV open circuit voltage	100V	150V
Maximum efficiency	98%	
Self-consumption	10 mA	
Charge voltage 'absorption', default setting	28,8V	57,6V
Charge voltage 'float', default setting	27,6V	55,2V
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-connection	Screw terminals 13 mm ² (6 AWG)	
PV connection	Six sets of MC4 (PV-ST01) PV connectors.	
Weight	21 kg	
Dimensions (h x w x d)	362 x 374 x 218 mm	
STANDARDS		
Safety	EN 60335-1, EN 60335-2-29, EN 62109, IEC 62109	
Emission / Immunity	EN 55014-1, 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 under voltage 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	