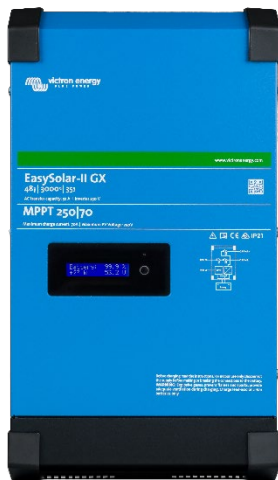


# EasySolar-II 48/3000/35-32 MPPT 250/70 GX

The all-in-one solar power solution

[www.victronenergy.com](http://www.victronenergy.com)



**EasySolar-II GX 3 kVA**



### VRM app for wifi

Monitor and manage your Victron Energy system from your smart phone and tablet. Available for both iOS and Android.



### VRM Portal

Our free remote monitoring website (VRM) will display all your system data in a comprehensive graphical format. System settings can be changed remotely via the portal. Alarms can be received by e-mail.

### The all-in-one solar power solution

The Victron EasySolar-II GX integrates the following elements:

- A MultiPlus-II inverter/charger
- A SmartSolar MPPT -Tr solar charge controller
- A GX device with a 2 x 16 character display.

These elements come prewired together inside a single unit. This greatly simplifies most installations, saving time and money.

### Display and wifi

The display reads battery, inverter and solar charge controller parameters.

The same parameters can be accessed with a smartphone or other wifi enabled device.

In addition, wifi can be used to set up the system and to change settings.

### Solar charge controller

The DC output of the SmartSolar MPPT is parallel wired with the DC connection of the MultiPlus-II inverter/charger.

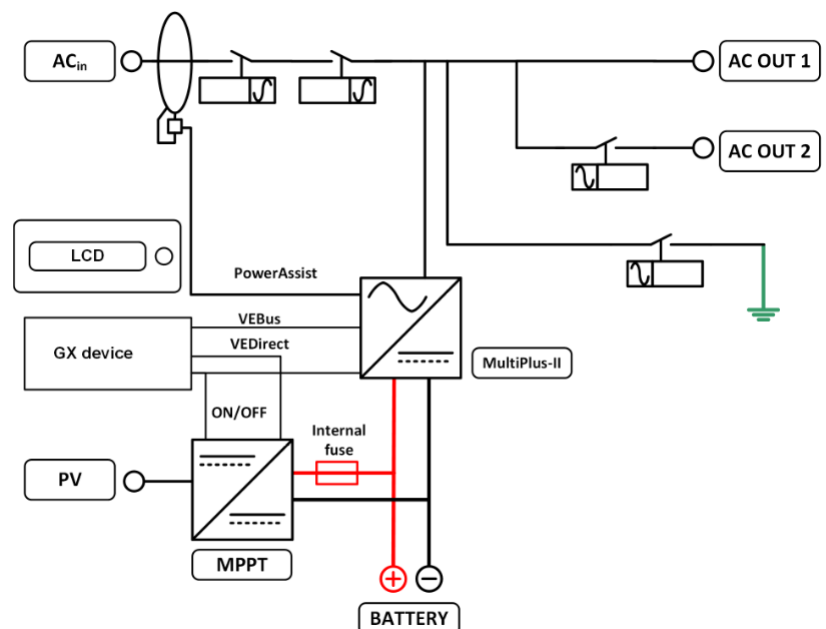
The on/off mechanism of the MultiPlus-II also controls the SmartSolar MPPT.

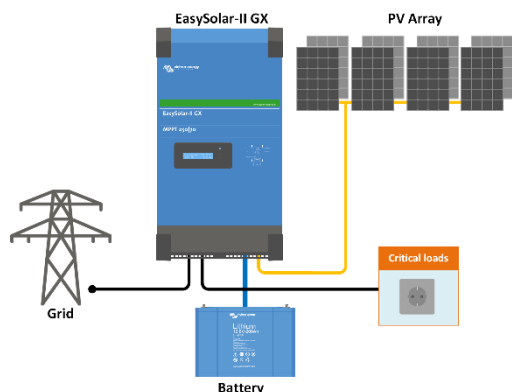
### GX device

The integrated GX device includes:

- A VE.Can interface. This can be used to connect to Victron VE.Can devices (e.g. VE.Can MPPTs), or the port can be reconfigured via the Remote Console for use with a compatible CAN-bus Li-ion Battery
- A USB port
- A Ethernet port
- A VE.Direct port

The GX device controls the MultiPlus-II and the SmartSolar MPPT with respectively a VE.Bus and a VE.Direct connection.

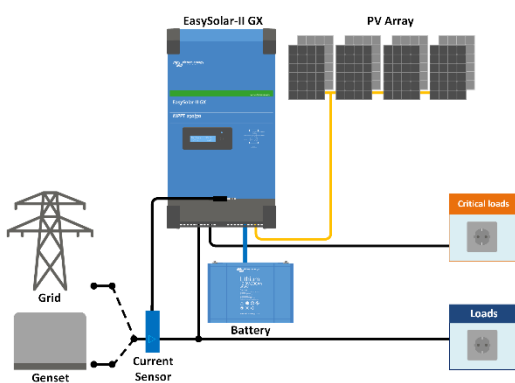




### Grid in-line topology

The EasySolar-II GX will use excess PV power to charge the batteries or to feed power back into the grid and will discharge the battery or use power from the grid to supplement a shortage of PV power. In case of a power outage, the EasySolar-II GX will disconnect the grid and continue to supply the loads.

Loads that should shut down when AC input power is not available can be connected to a second output (not shown). These loads will be taken into account by the PowerControl and PowerAssist function in order to limit AC input current to a safe value.



### Grid parallel topology

The EasySolar-II GX will use data from the external AC current sensor (must be ordered separately) or power meter to optimise self-consumption and, if required, to prevent grid feed. In case of a power outage, the EasySolar-II GX will continue to supply the critical loads



### Current sensor 100A:50mA

To implement PowerControl and PowerAssist and to optimise self-consumption with external current sensing.

Maximum current: 50A resp. 100A.  
Length of connection cable: 1 m.



Connection area

| EasySolar-II GX  | EasySolar-II 48/3000/35-32 MPPT 250/70 GX   |
|--|---|
| <b>INVERTER/CHARGER</b>  |   |
| PowerControl & PowerAssist   | Yes   |
| Transfer switch  | 32A   |
| Maximum AC input current   | 32A   |
| Auxiliary output   | Yes (32A)   |
| <b>INVERTER</b>  |   |
| Input voltage range  | 38 – 66V  |
| Output   | Output voltage: 230 VAC ± 2%<br>Frequency: 50 Hz ± 0,1% (1)   |
| Cont. output power at 25°C (3)   | 3000VA / 2400W  |
| Cont. output power at 40°C / 65°C  | 2200W / 1700W   |
| Maximum apparent feed-in power   | 2500VA  |
| Peak power   | 5500W   |
| Maximum efficiency   | 95%   |
| Zero load power  | 11W   |
| Zero load power in AES mode  | 7 W   |
| Zero load power in Search mode   | 2W  |
| <b>CHARGER</b>   |   |
| AC Input   | Input voltage range: 187-265 VAC<br>Input frequency: 45 – 65 Hz   |
| Charge voltage 'absorption'  | 57,6V   |
| Charge voltage 'float'   | 55,2V   |
| Storage mode   | 52,8V   |
| Maximum battery charge current (4)   | 35A   |
| Battery temperature sensor   | Yes   |
| Programmable relay (5)   | Yes   |
| Protection (2)   | a - g   |
| VE.Bus communication port  | For parallel and three phase operation,<br>remote monitoring and system integration   |
| General purpose com. port  | Yes, 2x   |
| <b>SOLAR CHARGE CONTROLLER</b>   |   |
| Model  | SmartSolar MPPT 250/70-Tr   |
| Maximum output current   | 70A   |
| Maximum PV power   | 4000W   |
| Maximum PV open circuit voltage  | 250V  |
| Maximum efficiency   | 98%   |
| Self-consumption   | 20mA  |
| Charge voltage 'absorption', default   | 57,6V   |
| Charge voltage 'float', default setting  | 55,2V   |
| Protection (2)   | a - e   |
| <b>GENERAL</b>   |   |
| Interfaces   | VE.Can, USB, Ethernet, VE.Direct, wifi  |
| Remote on-off  | Yes   |
| Operating temp. range  | -40 to +65°C (fan assisted cooling)   |
| Humidity (non-condensing):   | max 95%   |
| <b>ENCLOSURE</b>   |   |
| Material & Colour  | aluminium (blue RAL 5012)   |
| Protection category  | IP21  |
| Battery-connection   | M8 bolts  |
| PV connection  | M6 bolts  |
| 230 V AC-connection  | Screw terminals 13 mm <sup>2</sup> (6 AWG)  |
| Weight   | 26kg  |
| Dimensions (hxwx d)  | 506 x 275 x 237 mm  |
| <b>STANDARDS</b>   |   |
| Safety   | EN-IEC 60335-1, EN-IEC 60335-2-29<br>EN-IEC 62109-1, EN-IEC 62109-2   |
| Emission / Immunity  | EN 55014-1, EN 55014-2<br>EN-IEC 61000-3-2, EN-IEC 61000-3-3<br>IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3   |
| Anti-islanding   | See our website   |
| 1) Can be adjusted to 60 Hz<br>2) Protection key:<br>a) output short circuit<br>b) overload<br>c) battery voltage too high<br>d) battery voltage too low<br>e) temperature too high<br>f) 230 VAC on inverter output<br>g) input voltage ripple too high | 3) Non-linear load, crest factor 3:1<br>4) At 25°C ambient<br>5) Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function.<br>AC rating: 230V / 4A, DC rating: 4A up to 35VDC and 1A up to 60VDC |