



Certificate of Conformity

Certificate: 16906-1S

Master Contract: LC 1231751

Project: 16906

Date Issued: May 03, 2018

Issued to: Victron Energy B.V.
De Paal 35
JG Almere-Haven
1351 Netherlands

Certification System Type 3
(ISO / IEC Guide 67)

The products listed below are eligible to bear the LabTest Certification Mark with adjacent indicators 'C' and 'US', and the subject area as shown below.



Issued by:

Certification Manager

PRODUCTS

- Component type Photovoltaic Battery Charge Controller

- Models:

BlueSolar MPPT100|50; BlueSolar MPPT150|35; SmartSolar MPPT100|50; SmartSolar MPPT150|35; BlueSolar MPPT100|15; BlueSolar MPPT100|30; SmartSolar MPPT100|15; SmartSolar MPPT100|20; SmartSolar MPPT100|20_48V; SmartSolar MPPT100|30; BlueSolar MPPT75|10; BlueSolar MPPT75|15; SmartSolar MPPT75|10; SmartSolar MPPT75|15; BlueSolar MPPT150|45-tr; BlueSolar MPPT150|45-MC4; BlueSolar MPPT150|60-tr; BlueSolar MPPT150|60-MC4; BlueSolar MPPT150|70-tr; BlueSolar MPPT150|70-MC4; SmartSolar MPPT150|85-tr; SmartSolar MPPT150|85-MC4; SmartSolar MPPT150|100-tr; SmartSolar MPPT150|100-MC4

- Ratings:

Model Number	Max input voltage	Battery Voltage (V)	Max Power@ Batt 12V (W)	Max Power@ Batt 24V (W)	Max Power@ Batt 36V (W)	Max Power@ Batt 48V (W)	Rated charge current (A)
BlueSolar MPPT75 10	75	12; 24	145	290	--	--	10
SmartSolar MPPT75 10	75	12; 24	145	290	--	--	10
BlueSolar MPPT75 15	75	12; 24	220	440	--	--	15
SmartSolar MPPT75 15	75	12; 24	220	440	--	--	15
BlueSolar MPPT100 15	100	12; 24	220	440	--	--	15
SmartSolar MPPT100 15	100	12; 24	220	440	--	--	15
SmartSolar MPPT100 20	100	12; 24	290	580	--	--	20

SmartSolar MPPT100 20_48V	100	12; 24; 36; 48	290	580	870	1160	20
BlueSolar MPPT100 30	100	12; 24	440	880	--	--	30
SmartSolar MPPT100 30	100	12; 24	440	880	--	--	30
BlueSolar MPPT100 50	100	12; 24	700	1400	--	--	50
SmartSolar MPPT100 50	100	12; 24	700	1400	--	--	50
BlueSolar MPPT150 35	150	12; 24; 36; 48	500	1000	1500	2000	35
SmartSolar MPPT150 35	150	12; 24; 36; 48	500	1000	1500	2000	35
BlueSolar MPPT 150/45-Tr	150	12; 24; 36; 48	650	1300	1950	2600	45
BlueSolar MPPT 150/45-MC4	150	12; 24; 36; 48	650	1300	1950	2600	45
BlueSolar MPPT 150/60-Tr	150	12; 24; 36; 48	860	1720	2580	3440	60
BlueSolar MPPT 150/60-MC4	150	12; 24; 36; 48	860	1720	2580	3440	60
BlueSolar MPPT 150/70-Tr	150	12; 24; 36; 48	1000	2000	3000	4000	70
BlueSolar MPPT 150/70-MC4	150	12; 24; 36; 48	1000	2000	3000	4000	70
SmartSolar MPPT 150 85 – Tr	150	12; 24; 36; 48	1200	2400	3600	4900	85
SmartSolar MPPT 150 85 – MC4	150	12; 24; 36; 48	1200	2400	3600	4900	85
SmartSolar MPPT 150 100 – Tr	150	12; 24; 36; 48	1450	2900	4350	5800	100
SmartSolar MPPT 150 100 - MC4	150	12; 24; 36; 48	1450	2900	4350	5800	100

APPLICABLE REQUIREMENTS & SUBJECT AREA

- CAN/CSA C22.2 No. 107.1-16
- UL 1741: 2016

CONDITIONS OF ACCEPTABILITY

- These devices are built-in type components, where the final acceptance is dependent upon their installation and use in complete equipment submitted to LabTest Certification Inc.
- There is no isolation between input and output and no isolation between communication ports and display.
- These units are suitable for factory wiring only.
- The product was evaluated for a maximum ambient of 40°C with derating to 60°C possible.
- End installation shall comply with applicable parts of NEC, CE Code, Building Codes and requirements from authority holding jurisdictions.
- All units are potted for functional reasons.
- A protective electrical and fire enclosure shall be provided in the end product.
- A suitably rated external disconnect and overcurrent protection shall be provided in the end application.
- Maximum PV open circuit voltage: 150V.
- The units were evaluated for indoor use, Pollution Degree 3, Overvoltage Category: III
- The acceptability of the bonding of the unit to the protective grounding shall be evaluated in the end product.

The 'C' and 'US' indicators adjacent to the LabTest Certification Mark shall signify that the product has been evaluated by an accredited laboratory to the applicable CSA and UL Standards respectively. The subject area shall be displayed with the LabTest Certification Mark to identify the Standard Number, and Revision Level.