

Certificate of Conformity

By the product certificate number

No. 2622/0478-O-CER

Issued to:

License holder: **Victron Energy B. V.**
De Paal 35, 1351 JG Almere – Netherlands

Trademark: **victron energy**
BLUE POWER

Contract number: **802190**

It is certified that the product:

Type of product: **Inverter/Charger with UPS functionality**

Product Family: **MultiPlus-II**

Models: **48/8000/110-100 230V // 48/10000/140-100 230V // 48/15000/200-100 230V
48/3000/35-32 230V // 24/3000/70-32 230V // 24/5000/120-50 230V // 48/5000/70-50 230V
48/3000/35-32 GX 230V // 24/3000/70-32 GX 230V // 48/5000/70-50 GX 230V**

Technical Data:	Rated AC Power	See page 2
	Rated AC Voltage	230 V _{ac}
	Rated AC Frequency	50 Hz
	Firmware version	See page 2
	Number of phases	Single Phase (LN/PE)
	Isolation transformer	Yes

Is in compliance with product requirements of the standard:

- **PTPIREE Rev1.2:2021**, “Conditions and procedures for using certificates in the process of connecting power generation modules to power networks” ⁽¹⁾

Is in compliance with the requirements of regulation:

- **NC Code RfG**, Regulation (UE) 2016/631 COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators
- Generally applicable requirements resulting from Commission Regulation (EU) 2016/631 of 14 April 2016 laying down the network code concerning the requirements for connection of generating units to the grid (NC RfG)”- approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ of 2 January 2019

⁽¹⁾ Certified requirements only related to PTPIREE Rev1.2 clauses 7 and 9. The Functions denoted “Not Applicable” in table 2 of clause 7, have not been included.

See page 3 for more details regarding the standard’s requirements that are evaluated and in compliance under the scope of this certificate.

This certificate is based upon the test results of the Test Report 2622/0478-O & 2622/0478-P issued by SGS.

It is certified that Power Generating Unit (PGE) above indicated are in compliance with requirements detailed in the above referenced standard for grid connections of type A.

Aforementioned equipment is certified according to SGS internal procedure PE.T-ECPE-70 according to requirements established on standard UNE-EN ISO/IEC 17065.

This certificate is first issued on 18th April of 2024.

This certificate is valid until the 18th April of 2029.

Madrid, 18th April of 2024.

Daniel Arranz Muñiz
Certification Manager



Full list of product references and nominal characteristics:

Family	MultiPlus-II			
Model	48/8000/110-100 230V	48/10000/140-100 230V	48/15000/200-100 230V	24/5000/120-50 230V
AC Output				
Rated active power	6400 W	8000 W	12000 W	4000W
Max. active power	8000 VA	10000 VA	15000 kVA	5000VA
Rated AC Voltage	230 V _{ac} , L/N/PE			
Firmware version	2621510	2627510	2619510	2615510

Family	MultiPlus-II		
Model	48/3000/35-32 230V	24/3000/70-32 230V	48/5000/70-50 230V
AC Output			
Rated active power	2400W	2400W	4000W
Max. active power	3000VA	3000VA	5000VA
Rated AC Voltage	230 V _{ac} , L/N/PE		
Firmware version	2629510	2611510	2623510

Family	MultiPlus-II		
Model	48/3000/35-32 GX 230V	24/3000/70-32 GX 230V	48/5000/70-50 GX 230V
AC Output			
Rated active power	2400W	2400W	4000W
Max. active power	3000VA	3000VA	5000VA
Rated AC Voltage	230 V _{ac} , L/N/PE		
Firmware version	2629510	2611510	2623510



Requirements description acc. PTPIREE Rev1.2	Generally applicable requirements NC RfG	Type	Compliant	Name of Issuing Entity	Ev. ⁽²⁾
Power-frequency regulation mode limited to overfrequency (LFSM-O)	Article13, 2, a) Article13, 2, b) Article 13, 2, f)	≥A	YES (TRF No. 2622/0478-O & 2622/0478-P)	SGS	P
Power-frequency regulation mode limited to underfrequency (LFSM-U)	Article 15, 2, c), i)	≥C	Not Applicable	--	N/A
Fast fault current injection at the connection point in case of symmetrical (3-phase) faults	Article 20, 2, b) Article 20, 2, c)	≥B	Not Applicable	--	N/A
FRT	Article 20, 2, b) Article 20, 2, c)	≥B	Not Applicable	--	N/A
Recovery of active power after a fault	Article 20, 3, a)	≥B	Not Applicable	--	N/A
Cessation of active power	Article 13, 6	A&B	YES (TRF No. 2622/0478-O & 2622/0478-P)	SGS	P
Remote Control PGM Type B	Article 14, 2	B	Not Applicable	--	N/A
Frequency operation field	Article 13, 1, a)	≥A	YES (TRF No. 2622/0478-O & 2622/0478-P)	SGS	P
ROCOF	Article 13, 1, b)	≥A	YES (TRF No. 2622/0478-O & 2622/0478-P)	SGS	P
⁽²⁾ Note: - P: Test of compliance - N/A: Not applicable					



ANNEX I: POLAND PARAMETER TABLE

Clause(s) / subclause(s) of EN 50549-1:2019 or EN 50549-2:2019	Parameter	Remarks / Additional information	Configurable Value / Range
4.4.2 Operating frequency range	47.5 – 48.5 Hz Duration		30 mins
	48.5 – 49.0 Hz Duration		Unlimited
	49.0 – 51.0 Hz Duration		Unlimited
	51.0 – 51.5 Hz Duration		30 mins
4.5.2 Rate of change of frequency (ROCOF) immunity	ROCOF withstand capability		2 Hz/s
4.6.1 Power response to overfrequency	Threshold frequency f1		50.2 Hz – 50.5 Hz
	Droop		2 % – 12 %
	Power reference		Pmax
	Intentional delay		0
	Deactivation threshold fstop		f1
	Deactivation time tstop		N/A
4.11.1 Ceasing active power	Activation option	The communication port is classified as input port "AUX 1"	Digital input.

