

Certificate of Conformity

No. ESY 121060 0011 Rev. 00

Holder of Certificate: **MASTER BATTERY, S.L.**
PASEO DE EXTREMADURA, 39
28935 MOSTOLES
SPAIN

Product: **Converter**
(Hybrid Inverter)

Model(s): **MF-GREENE-8K3P, MF-GREENE-10K3P**
MF-GREENE-12K3P

Parameters: See page 3

Applicable standards: NTS V2.1:2021-07

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290233042401

Date, 2023-06-28



(Billy Qiu)

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Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed below:

Type of PGM to be installed	Photovoltaic, Type A
Test requirement	The certification complies with the requirements of the following documents: Technical standard for monitoring the compliance of power generating modules according to EU Regulation 2016/631. Version 2.1 (2021-07-09) + correction of errors of Version 2.1 (2021-10-08)
Manufacturer	MASTER BATTERY, S.L. PASEO DE EXTREMADURA, 39, 28935 MOSTOLES, SPAIN
Model and Technical Data	See page 3
Software version	ARM: V1.0.0, DSP: V1.0.0.

Scope of assessment and results

Clause of NTS V2.1	Requirement	Type A	Assessment	
			Type	Result
5.1.	Power-frequency limited overfrequency regulation mode (MRPFL-O)	Yes	Test	Pass

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Parameters:

Model:	MF-GREENE-8K3P	MF-GREENE-10K3P	MF-GREENE-12K3P
PV input parameter			
Maximum input voltage	1100 Vd.c.		
MPPT voltage range	140~1000 Vd.c.		
MPPT voltage range (full load)	380~850 Vd.c.	420~850 Vd.c.	480~850 Vd.c.
Maximum input current	2*15 Ad.c.		
PV I _{sc}	2*20 Ad.c.		
Battery input/output parameter			
Battery type	Lithium or lead-acid		
Input voltage range	44~58 Vd.c.		
Maximum input/output voltage	58 Vd.c.		
Maximum charging current	160 Ad.c.		
Maximum charging power	8000 W		
Maximum discharging current	160 Ad.c.	200 Ad.c.	
Maximum discharging power	8000 W	10000 W	
Grid parameter			
Rated input/output voltage	3/N/PE, 230/400 Va.c.		
Rated input/output frequency	50 Hz		
Maximum input current	25 Aa.c.		
Maximum input active power	16000 W	17800 W	
Maximum input apparent power	16000 VA	17800 VA	
Maximum input active power from grid to battery	8600 W		
Rated output current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Maximum continuous output current	12.8 Aa.c.	16.0 Aa.c.	19.2 Aa.c.
Rated output active power	8000 W	10000 W	12000 W
Maximum output active power	8000 W	10000 W	12000 W
Maximum output apparent power	8800 VA	11000 VA	13200 VA
Maximum output active power from battery to grid (without PV input)	7500 W	9300 W	
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		