

Certificate of Conformity

No. ESY 109576 0008 Rev. 00

Holder of Certificate: **WeCo SRL**
Viale Kennedy 113-121 Scarperia e San Piero
50038 Firenze
ITALY

Product: **Converter**
(Hybrid Inverter)

Model(s): **H-ESY-6K, H-ESY-8K, H-ESY-10K,
H-ESY-12K, H-ESY-15K, H-ESY-6KT,
H-ESY-8KT, H-ESY-10KT, H-ESY-12KT,
H-ESY-15KT**

Parameters: See Page 3-5

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.: 64290233158701

Date, 2024-08-14



(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	Hybrid Inverter, 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	WeCo SRL Viale Kennedy 113-121 Scarperia e San Piero 50038 Firenze, ITALY
Model and Technical Data	See page 3-5
Software version	ARM: V1.03.08, DSP: V1.02.11

Scope of assessment and results

Clause of NTS V2.1	Requirement	Type A	Type B	Type C	Type D	Assessment
5.1.	Power-frequency limited over-frequency regulation mode (MRPFL-O)	Yes	N/A	N/A	N/A	Pass

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Parameters:

Model	H-ESY-6K	H-ESY-8K	H-ESY-10K	H-ESY-12K	H-ESY-15K
PV terminal parameters					
Maximum PV voltage [V_{DC}]	1000				
Rated voltage [V_{DC}]	700				
MPPT voltage range [V_{DC}]	180 - 850				
MPPT voltage range (full load) [V_{DC}]	180 - 850	240 - 850	300 - 850	360 - 850	410 - 850
Maximum input current [A_{DC}]	18/18				20/20
Isc PV [A_{DC}]	25/25				30/30
MPPT tracker number	2				
Maximum input power [W]	9000	12000	15000	18000	22500
Battery input/output parameters					
Battery type	Lithium-ion				
Maximum voltage [V_{DC}]	600				
Battery rated voltage [V_{DC}]	200	250	300	350	400
Battery voltage range [V_{DC}]	125 - 600				
Maximum charge power [W]	6000	8000	10000	12000	15000
Maximum discharge power [W]	6000	8000	10000	12000	15000
Maximum charge current [A_{DC}]	50				
Maximum discharge current [A_{DC}]	50				
Maximum charge power from grid to battery [W]	6000	8000	10000	12000	15000
Grid input terminal parameters					
Rated input voltage [V_{AC}]	3P+N+PE, 230/400				
Rated input frequency [Hz]	50				
Maximum continuous input current from grid to battery [A_{AC}]	9.5	12.7	15.9	19.1	23.8
Maximum continuous input current [A_{AC}]	19.0	25.5	31.9	38.2	47.6
Maximum continuous input power from grid to battery [W]	6000	8000	10000	12000	15000
Maximum continuous input active power [W]	13200	17600	22000	26400	33000
Maximum continuous input apparent power [VA]	13200	17600	22000	26400	33000
Grid output terminal parameters					
Rated output voltage [V_{AC}]	3P+N+PE, 230/400				
Rated output frequency [Hz]	50				

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Rated output current [I_{AC}]	8.7	11.6	14.5	17.4	21.7
Maximum continuous output current [I_{AC}]	9.5	12.7	15.9	19.1	23.8
Rated output active power [W]	6000	8000	10000	12000	15000
Maximum output active power [W]	6000	8000	10000	12000	15000
Maximum output apparent power [VA]	6600	8800	11000	13200	16500
Power factor range	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)				

Model	H-ESY-6KT	H-ESY-8KT	H-ESY-10KT	H-ESY-12KT	H-ESY-15KT
PV terminal parameters					
Maximum PV voltage [V_{DC}]	1000				
Rated voltage [V_{DC}]	700				
MPPT voltage range [V_{DC}]	180 - 850				
MPPT voltage range (full load) [V_{DC}]	250 - 850	330 - 850	430 - 850	510 - 850	620 - 850
Maximum input current [I_{DC}]	13/13				
Isc PV [I_{DC}]	16/16				25/25
MPPT tracker number	2				
Maximum input power [W]	9000	12000	15000	18000	22500
Battery input/output parameters					
Battery type	Lithium-ion				
Maximum voltage [V_{DC}]	600				
Battery rated voltage [V_{DC}]	200	250	300	350	400
Battery voltage range [V_{DC}]	125 - 600				
Maximum charge power [W]	6000	8000	10000	12000	15000
Maximum discharge power [W]	6000	8000	10000	12000	15000
Maximum charge current [I_{DC}]	50				
Maximum discharge current [I_{DC}]	50				
Maximum charge power from grid to battery [W]	6000	8000	10000	12000	15000
Grid input terminal parameters					
Rated input voltage [V_{AC}]	3P+N+PE, 230/400				
Rated input frequency [Hz]	50				
Maximum continuous input current from grid to battery [I_{AC}]	9.5	12.7	15.9	19.1	23.8
Maximum continuous input current [I_{AC}]	19.0	25.5	31.9	38.2	47.6

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Grid output terminal parameters					
Rated output voltage [V _{AC}]	3P+N+PE, 230/400				
Rated output frequency [Hz]	50				
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Power factor range	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)				