



Product Service

Compliance Document

No. D 109576 0015 Rev. 00

Holder of Certificate: WeCo SRL

Viale Kennedy 113-121 Scarperia e San Piero
50038 Firenze
ITALY

Product:

Converter
(Hybrid Inverter with storage battery system)

Model(s):

Inverter models:
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
Battery model:
5K0 BATVM050W

Parameters:

See page 2-3

**Tested
according to:**

CEI 0-21:2022
CEI 0-21:2022/V1:2022
CEI 0-21:2022/V2:2024

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.:

64290243025301

Date, 2024-08-29

(Billy Qiu)



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Parameters:

Inverter 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 terminal input 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 terminal output parameters					
Rated output voltage [V _{AC}]	3P+N+PE, 230/400				
Rated output frequency [Hz]	50				
Rated output current [A _{AC}]	8.7	11.6	14.5	17.4	21.7
Maximum continuous output current [A _{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 to 0.9 capacitive				
General parameter					
Operation temperature range [°C]	-25 to +60				
Storage temperature range [°C]	-25 to +70				
Relative humidity [%RH]	0 to 95				



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Inverter 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 [A _{DC}]	13/13				
Isc PV [A _{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 [A _{DC}]	50				
Maximum discharge current [A _{DC}]	50				
Maximum charge power from grid to battery [W]	6000	8000	10000	12000	15000
Grid terminal input 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 terminal output parameters					
Rated output voltage [V _{AC}]	3P+N+PE, 230/400				
Rated output frequency [Hz]	50				
Rated output current [A _{AC}]	8.7	11.6	14.5	17.4	21.7
Maximum continuous output current [A _{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 to 0.9 capacitive				
General parameter					
Operation temperature range [°C]	-25 to +60				
Storage temperature range [°C]	-25 to +70				
Relative humidity [%RH]	0 to 95				

Battery model parameters see below page: 5



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The following generators meet the requirements of CEI 0-21:2022, CEI 0-21:2022/V1:2022 and CEI 0-21:2022/V2:2024						
Section A	Manufacturer	WeCo SRL Viale Kennedy 113-121 Scarperia e San Piero, 50038 Firenze, ITALY				
	Equipment type	Hybrid Inverter with storage battery system				
	Brand	WeCo				
	N. phases	☐ Single phase ☒ Three phase Frequency: 50 Hz Voltage: 230/400 V _{AC}				
	Primary energy used	☒ Solar ☒ Storage ☐ Wind ☐ Hydroelectric ☐ CHP ☐ Other:				
	Generator model	H-ESY-6K/ H-ESY-6KT	H-ESY-8K/ H-ESY-8KT	H-ESY-10K/ H-ESY-10KT	H-ESY-12K/ H-ESY-12KT	H-ESY-15K/ H-ESY-15KT
	Nominal power	6000 W	8000 W	10000 W	12000 W	15000 W
	Apparent power	6600 VA	8800 VA	11000 VA	13200 VA	16500 VA
	The generator:	☒ is suitable for installation in systems with an output power of more than 11.08 kW ☒ is capable of limiting Idc to 0.5% of rated current ☒ uses a DC-sensitive protection function ☐ uses a transformer operating at mains frequency				
Section B	Characteristics of the interface protection system					
	Manufacturer	WeCo SRL				
	Model	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				
	Type	☒ Integrated ☐ Not integrated Remark: The application of model H-ESY-12K, H-ESY-12KT, H-ESY-15K and H-ESY-15KT in system may exceed 11.08 kW on grid connection point, external interface protection system is required according to final installation requirement.				
Section C	Characteristics of the static converter					
	Static converter model	H-ESY-6K/ H-ESY-6KT	H-ESY-8K/ H-ESY-8KT	H-ESY-10K/ H-ESY-10KT	H-ESY-12K/ H-ESY-12KT	H-ESY-15K/ H-ESY-15KT
	Manufacturer of the static converter	WeCo SRL				
	Firmware version	ARM: V1.02.12, DSP: V1.03.04				
	Rated converter power (PNINV)	6000 W	8000 W	10000 W	12000 W	15000 W



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Section E	Characteristics of the Storage System (SdA)					
	Converter forming storage system					
	Converter Manufacturer	WeCo SRL				
	Converter model	H-ESY-6K/ H-ESY-6KT	H-ESY-8K/ H-ESY-8KT	H-ESY-10K/ H-ESY-10KT	H-ESY-12K/ H-ESY-12KT	H-ESY-15K/ H-ESY-15KT
	Battery forming storage system					
	Battery Manufacturer	WeCo SRL				
	Battery model	5K0 BATVM050W				
	Rated capacity of battery [kWh]	5 (with 1* battery module)				
	Usable capacity of battery [kWh]	5 (with 1* battery module)				
	Remark: The Storage System parameters are referred to the report No.: 64.290.24.30253.01					
	Typology	☒ Bidirectional ☐ Monodirectional				
	Batteries that can be used with the above static converters					
	Brand	WeCo				
	Technology	LFP				
	Models	5K0 BATVM050W				
	CUS module (kWh)	5 (with 1* battery module)				
	BMS firmware version	6601				
	N. of modules	1-12 pieces				
	Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's instruction.				
Section I	References of the laboratories that performed the tests and their test reports (RdP)					
	Chosen method	☒ Tests performed by an accredited laboratory				
	Test Reports (RdP)	Test report according to Annex A, Annex Bbis: 64.290.24.30253.01				
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch				
	Accreditation No.	D-PL-19065-01-00				
	Accreditation body ref.	DAkKS				
Section M	Reference of the certification body					
	Certification Body	TÜV SÜD Product Service GmbH DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013				