



Product Service

Compliance Document

No. D 132944 0003 Rev. 00

Holder of Attestation: **Heiwit S.p.A**Via Carlo Robbioni, 2
21100 Varese VA
ITALY**Product:****Converter****(Hybrid Inverter with storage battery system)****Model(s):****Inverter model:****Virgo 3K-S-HW, Virgo 3K6-S-HW,
Virgo 4K-S-HW, Virgo 4K6-S-HW,
Virgo 5K-S-HW, Virgo 6K-S-HW****Battery model: 48210****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 particular sample. This compliance document makes no statement regarding the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.:

64290253053001

Date, 2025-10-17

(Billy Qiu)



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Parameters:

Inverter:

Model	Virgo 3K-S-HW	Virgo 3K6-S-HW	Virgo 4K-S-HW	Virgo 4K6-S-HW	Virgo 5K-S-HW	Virgo 6K-S-HW
PV terminal parameters						
Maximum PV voltage [V _{DC}]	600					
Rated voltage [V _{DC}]	360					
MPPT voltage range [V _{DC}]	100-550					
MPPT voltage range (full load) [V _{DC}]	250-520					
Maximum input current [A _{DC}]	16/16					
Isc PV [A _{DC}]	20/20					
MPPT tracker number	2					
Maximum input power [W]	8000	8600	9000			
Battery input/output parameters						
Battery type	Sodium-ion					
Maximum voltage [V _{DC}]	60					
Battery rated voltage [V _{DC}]	48					
Battery voltage range [V _{DC}]	32-60					
Maximum charge/discharge power [W]	5000					
Maximum charge/discharge current [A _{DC}]	100					
Grid terminal input parameters						
Rated input voltage [V _{AC}]	1P+N+PE, 230					
Rated input frequency [Hz]	50					
Maximum continuous input current from grid to battery [A _{AC}]	13.0	16.0	17.4	20.0	21.7	23.0
Maximum continuous input current [A _{AC}]	26.1	32.0	34.8	40.0	43.5	43.5
Maximum continuous input power from grid to battery [W]	3000	3680	4000	4600	5000	5300
Maximum continuous input active power [W]	6000	7360	8000	9200	10000	10000
Maximum continuous input apparent power [VA]	6000	7360	8000	9200	10000	10000
Power factor range	0.9 inductive to 0.9 capacitive					
Grid terminal output parameters						
Rated output voltage [V _{AC}]	1P+N+PE, 230					



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Rated output frequency [Hz]	50					
Rated output current [A _{AC}]	13.0	16.0	17.4	20.0	21.7	26.1
Maximum continuous output current [A _{AC}]	13.0	16.0	17.4	20.0	21.7	26.1
Rated output active power [W]	3000	3680	4000	4600	5000	6000
Maximum output active power [W]	3000	3680	4000	4600	5000	6000
Maximum output apparent power [VA]	3000	3680	4000	4600	5000	6000
Power factor range	0.9 inductive to 0.9 capacitive					
General parameter						
Operation temperature range [°C]	-25 to +60					
Full power temperature range [°C]	-25 to +40					
Storage temperature range [°C]	-40 to +70					
Relative humidity [%RH]	0 to +100					

Battery:

Battery pack model	48210
Input/Output parameters	
Battery type	Sodium-ion
Maximum voltage [V _{DC}]	60
Rated voltage [V _{DC}]	48
Battery voltage range [V _{DC}]	32-60
Maximum charge/discharge current [A _{DC}]	195
Rate capacity of battery [kWh]	10.08
Usable capacity of battery [kWh]	10.08



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The following generators meet the requirements of CEI 0-21:2022+V1:2022+V2:2024							
Section A	Manufacturer	Heiwit S.p.A Via Carlo Robbioni, 2, 21100 Varese VA, ITALY					
	Equipment type	Hybrid Inverter with storage battery system					
	Brand	HEIWIT					
	N. phases	☒ Single phase ☐ Three phase Frequency: 50 Hz Voltage: 230V _{AC}					
	Primary energy used	☒ Solar ☒ Storage ☐ Wind ☐ Hydroelectric ☐ CHP ☐ Other:					
	Generator model	Virgo 3K-S-HW	Virgo 3K6-S-HW	Virgo 4K-S-HW	Virgo 4K6-S-HW	Virgo 5K-S-HW	Virgo 6K-S-HW
	Nominal power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
	Apparent power	3000 VA	3680 VA	4000 VA	4600 VA	5000 VA	6000 VA
	The generator:	☐ is suitable for installation in systems with an output power of more than 11.08 kW ☒ is capable of limiting I _{dc} 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	Heiwit S.p.A Via Carlo Robbioni, 2, 21100 Varese VA, ITALY					
	Model	Virgo 3K-S-HW, Virgo 3K6-S-HW, Virgo 4K-S-HW, Virgo 4K6-S-HW, Virgo 5K-S-HW, Virgo 6K-S-HW					
	Type	☒ Integrated ☐ Not integrated					
Section C	Characteristics of the static converter						
	Static converter model	Virgo 3K-S-HW	Virgo 3K6-S-HW	Virgo 4K-S-HW	Virgo 4K6-S-HW	Virgo 5K-S-HW	Virgo 6K-S-HW
	Manufacturer of the static converter	Heiwit S.p.A Via Carlo Robbioni, 2, 21100 Varese VA, ITALY					
	Firmware version	V2.67					
	Rated converter power (P _{NINV})	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W



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Section E	Characteristics of the Storage System (SdA)						
	Converter forming storage system						
	Converter Manufacturer	Heiwit S.p.A Via Carlo Robbioni, 2, 21100 Varese VA, ITALY					
	Converter model	Virgo 3K-S-HW	Virgo 3K6-S-HW	Virgo 4K-S-HW	Virgo 4K6-S-HW	Virgo 5K-S-HW	Virgo 6K-S-HW
	Battery forming storage system						
	Battery Manufacturer	Heiwit S.p.A Via Carlo Robbioni, 2, 21100 Varese VA, ITALY					
	Battery model	48210					
	Typology	☒ Bidirectional ☐ Monodirectional					
	Remark: The Storage System parameters are referred to the report No.: 64.290.25.30530.01						
	Batteries that can be used with the above static converters						
	Brand	Heiwit S.p.A					
	Technology	Sodium-ion					
	Models	48210					
	CUS module (kWh)	10.08					
	BMS firmware version	51120-1.0					
	N. of modules	1-3 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: 64.290.25.30530.01					
	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					