

Certificate of compliance

Applicant:

UPOWER ELECTRIC CO., LTD 4F-A Block, No.62, Yinhe Road, Longgang District, Shenzhen, Guangdong China

Product:

Hybrid inverter

Model:

UHome-3K0L UHome-3K6L UHome-4K0L UHome-4K6L UHome-5K0L UHome-6K0L UHome-8K0L

Inverter for single-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

EN 50549-1:2019

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

DIN VDE V 0124-100:2020 (5.5.2.1 Functional safety of network and system protection)

Grid integration of generator plants - Low-voltage - Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG). Type approval for generation units to use in Type A and Type B plants.

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number:	CIZC-ESH-P22120590	EPUM	Certification Program:	NSOP-0032-DEU-ZE-V01
Certificate number:	U23-0790	FILLENONGS	Date of issue:	2023-09-12
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Certification	body Bureau Veritas Consumer Pr	oducts Services Germa	any GmbH accreditation to Di	N EN ISO/IEC 17065
	Testing laboratory a	ccredited according to	DIN EN ISO/IEC 17025	

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH

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Appendix

Type Approval and declarati 2016/631 of 14 April 2016	on of compliance with th	e requirements of EN 5	0549-1 and Commission	n Regulation (EU)		
Manufacturer / applicant	UPOWER ELECTRIC CO., LTD 4F-A Block, No.62, Yinhe Road, Longgang District, Shenzhen, Guangdong, China					
Micro-generator Type	Hybrid inverter					
	UHome-3K0L	UHome-3K6L	UHome-4K0L	UHome-4K6L		
MPP DC voltage range [V]	80-500					
Max. input DC voltage [V]	550					
Max. input DC current [A]	14/14					
Output AC voltage [V]	230 50/60Hz					
Max AC current [A]	14,3	16,0	19,1	20,0		
Apparent power [VA]	3300	3680	4400	4600		
	UHome-5K0L	UHome-6K0L	UHome-8K0L	-		
MPP DC voltage range [V]		80-500		-		
Max. input DC voltage [V]	550					
Max. input DC current [A]	14/14		14/28			
Output AC voltage [V]	230 50/60Hz					
Max AC current [A]	21,7	28,7	38,3			
Apparent power [VA]	5000	6600	8800			
Firmuna vansian		4 04 45				
Firmware version	DSP: V1.05.07, ARM: V1.04.15					

between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.