ATTESTATION OF CONFORMITY

Issued to:	Hangzhou Livoltek Power Co., Ltd. 1418-35 Moganshan Road, Shangcheng Industrial Zone, 310011 Hangzhou, Zhejiang Province, P.R. China
For the product:	Hybrid inverter
Trade name:	LIVOLTEK Solar Hybrid Expert
Type/Model:	Hyper-2000, Hyper-3000, Hyper-3680, Hyper-4600, Hyper-5000 Retro-2000, Retro-3000, Retro-3680, Retro-4600, Retro-5000
Ratings:	See Annex
Manufactured by:	Hangzhou Livoltek Power Co., Ltd. 1418-35 Moganshan Road, Shangcheng Industrial Zone, 310011 Hangzhou, Zhejiang Province, P.R. China
Requirements:	EN 50549-1:2019

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6095331.50

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 17 June 2021 Number: 6095331.01AOC

DEKRA Testing and Certification (Shanghai) Ltd.

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Certification Manager

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Annex to 6095331.01AOCC

Type Tested Reference Number	6095331.50
Inverter Model	Hyper-5000, Hyper-4600, Hyper-3680, Hyper-3000, Hyper-2000 Retro-5000, Retro-4600, Retro-3680, Retro-3000,Retro-2000
Micro-generator Technology	Hybrid Inverter (Hyper Series) AC Coupled Inverter (Retro Series)
Manufacturer	Hangzhou Livoltek Power Co., Ltd.
Address	1418-23 Moganshan Road, Shangcheng Industrial Zone, 310011, Hangzhou City, China

	Hyper-2000	Hyper-3000	Hyper-3680	Hyper- 4600	Hyper-5000
MPPT Voltage Range (V)	125~500	125~500	125~500	125~500	125~500
Input DC Voltage Range (V)	100~600	100~600	100~600	100~600	100~600
Max. Input Current (A)	14	14	14/14	14/14	14/14
Max. Short Circuit Current (A)	17.5	17.5	17.5/17.5	17.5/17.5	17.5/17.5
Nominal AC Voltage (V)	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240
Nominal AC Current (A)	8,7	13,0	16,0	20,0	21,7
Nominal AC Power (W)	2000	3000	3680	4600	5000
Battery Voltage Range (V)	40~60	40~60	40~60	40~60	40~60
Max. Charge Current (A)	40	60	80	100	100
Max. Discharge Current (A)	40	60	80	100	100

	Retro-2000	Retro -3000	Retro -3680	Retro - 4600	Retro -5000
MPPT Voltage Range (V)	/	/	/	/	/
Input DC Voltage Range (V)	/	/	/	/	/
Max. Input Current (A)	/	/	/	/	/
Max. Short Circuit Current (A)	/	/	/	/	/
Nominal AC Voltage (V)	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240	L/N/PE, 220/230/240
Nominal AC Current (A)	8,7	13,0	16,0	20,0	21,7
Nominal AC Power (W)	2000	3000	3680	4600	5000
Battery Voltage Range (V)	40~60	40~60	40~60	40~60	40~60
Max. Charge Current (A)	40	60	80	100	100
Max. Discharge Current (A)	40	60	80	100	100

Description of the structure of the power generation unit:

The power generation unit is equipped with a PV and line-side EMC filter. The power generation unit has no galvanic isolation 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.
Note: The settings of the interface protection are password protected adjustable. In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration. The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU)2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.