



LIVOLTEK

Hangzhou Livoltek Power Co., Ltd. (China)

1418-35 Moganshan Road, Hangzhou, 310011, China

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www.livoltek.com



Dichiarazione di conformità alle prescrizioni della Norma CEI 0-21
Declaration of conformity to the requirements of the standard CEI 0-21

1. TIPOLOGIA DEL SISTEMA DI ACCUMULO CUI SI RIFERISCE LA DICHIARAZIONE:

TYPE OF STORAGE SYSTEM TO WHICH THIS DECLARATION REFERS

DISPOSITIVO DI INTERFACCIA <i>INTERFACE DEVICE</i>	SI / YES				
PROTEZIONE DI INTERFACCIA <i>INTERFACE PROTECTION</i>	SI / YES				
DISPOSITIVO DI CONVERSIONE STATICA <i>STATIC CONVERSION DEVICE</i>	SI / YES				
DISPOSITIVO DI GENERAZIONE ROTANTE <i>ROTARY GENERATING DEVICE</i>	NO				
MODELLO DI INVERTER <i>INVERTER MODEL</i>	Hyper-6000	Hyper-5000	Hyper-4600	Hyper-3680	Hyper-3000
	Retro-6000	Retro-5000	Retro-4600	Retro-3680	Retro-3000
POTENZA NOMINALE <i>RATED POWER [W]</i>	6000	5000	4600	3680	3000
VERSIONE FIRMWARE <i>FIRMWARE VERSION</i>	1.05	1.05	1.05	1.05	1.05
NUMERO DI FASI (monofase/trifase) <i>NUMBER OF PHASE (single/triphas)</i>	Monofase <i>Single-phase</i>	Monofase <i>Single-phase</i>	Monofase <i>Single-phase</i>	Monofase <i>Single-phase</i>	Monofase <i>Single-phase</i>
COSTRUTTORE <i>MANUFACTURER</i>	HANGZHOU LIVOLTEK POWER CO., LTD.				
INDIRIZZO <i>ADDRESS</i>	No. 1418-35, Moganshan Road, Hangzhou City, Zhejiang Province, 310011 P. R. China				
NOTA <i>REMARK</i>	Il dispositivo è in grado di limitare la I _{dc} allo 0,5% della corrente nominale. <i>The device is capable to limit I_{dc} to 0,5% of the rated current.</i>				

2. GLI INVERTER SOPRA ELENCATI SONO CERTIFICATI CON UNA DELLE SEGUENTI BATTERIE:

THE INVERTERS LISTED ABOVE ARE CERTIFIED ACCORDING WITH ONE OF THE FOLLOWING BATTERIES:

COSTRUTTORE <i>MANUFACTURER</i>	MODELLO MODULO BATTERIA <i>BATTERY MODUL MODEL</i>	CAPACITÀ SISTEMA (CUS) [WH] <i>SYSTEM CAPACITY (CUS) [WH]</i>
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<p>HANGZHOU LIVOLTEK POWER CO., LTD.</p>	<p>BLF51-5</p>	<p>n. di moduli batteria x 5120 n. of battery modules x 5120</p>
<p>3. RIFERIMENTO DEL LABORATORIO CHE HA ESEGUITO LE PROVE E DEI RELATIVI FASCICOLI DI PROVA <i>REFERENCE OF THE LABORATORY WHICH CARRIED OUT THE TESTS AND OF THE RELATIVE TEST DOSSIERS</i></p>		
<p>Numero di certificato / Certificate number: COCPVP02043/23E-01 Rapporto di prova n° / Test report No.: TRPVP02043/23E/01 Emesso da / Issued by: TÜV NORD (HANGZHOU) CO.,LTD. In accordo con / In compliance with: DIN EN ISO/IEC 17065:2012 Laboratorio accreditato da / Laboratory Accredited by: Dongguan BALUN Testing Technology Co.,Ltd. Numero di accreditamento / Accreditation number: CNAS L14701</p>		
<p>4. DICHIARAZIONE DI CONFORMITÀ ALLE PRESCRIZIONI DELLA NORMA CEI 0-21:2019-04 , CEI 0-21:2022-03 <i>DECLARATION OF CONFORMITY TO THE REQUIREMENTS OF THE STANDARD CEI 0-21:2019-04, CEI 0-21:2022-03</i></p>		
<p>Con la presente dichiarazione, resa ai sensi degli artt. 46 e 47 DPR 28 Dicembre 2000, n. 445, il sottoscritto Zhou Liangzhang, in qualità di legale rappresentante della società Hangzhou Livoltek Power Co., Ltd. con sede in n. 1418-35, Moganshan Road, Hangzhou City, Zhejiang Province, 310011 P. R. China, dichiara che l'inverter di propria produzione di cui al punto 1 è conforme alle prescrizioni contenute nella norma CEI 0-21:2019-04, CEI 0-21:2022-03. Attesta altresì che la produzione dei dispositivi avviene in regime di qualità.</p> <p>With this declaration, according with the articles 46 and 47 of Presidential Decree 28 December 2000, number 445, the undersigned Zhou Liangzhang, as legal representative of the company Hangzhou Livoltek Power Co., Ltd. Based in No. 1418-35, Moganshan Road, Hangzhou City, Zhejiang Province, 310011 P. R. China, herewith declare that the inverter of own production referred to in point 1 complies with the requirements contained in the CEI-0-21: 2019-04, CEI 0-21:2022-03 Standard. It also certifies that the production of the devices takes place under a quality system.</p>		
<p>Hangzhou, lì 03.11.2023</p>	<p>Firma del dichiarante/ Signature of the declarant Zhou Liangzhang</p>  <p>Hangzhou Livoltek Power Co., Ltd.</p> 	

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CEC 2023-11-03

TUV NORD

Certificate of Conformity

Registered No.: **COCPVP02043/23E-01**

File reference	Test report No.	Date of issue
PVP02043/23E-01	TRPVP02043/23E/01	2023-05-17

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: Hangzhou LIVOLTEK Power Co., Ltd.
1418-35, Moganshan Road, Hangzhou City, China

Manufacturer: Hangzhou LIVOLTEK Power Co., Ltd.
1418-35, Moganshan Road, Hangzhou City, China

Factory : LIVOLTEK POWER CO., LTD.
Room 505, Building 1, No.1418-35, Moganshan Road, Shangcheng District, Hangzhou City, Zhejiang Province (Shangcheng Science and Technology Industrial Base)

Product: Hybrid Inverter

Type designation: Hyper-3000, Hyper-3680, Hyper-4600, Hyper-5000, Hyper-6000
Retro-3000, Retro-3680, Retro-4600, Retro-5000, Retro-6000

Type of equipment: Interface device
 Interface protection
 Static conversion device
 Rotary generation device
Remark: The device is for plants of below 11.08kW.

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): CEI 0-21:2019-04, CEI 0-21:2022-03 "Reference technical rules for the connection of active and passive users to the LV electrical Utilities"
See test report for detailed information.

Certification body: TÜV NORD (HANGZHOU) CO., LTD.
Room B409, Building 1, No. 9, Jluhuan Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310019, P.R. China


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BOS&ESS-T-004 COC


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TÜV NORD (HANGZHOU) CO., LTD.
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Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.

Testing laboratory: **Dongguan BALUN Testing Technology Co., Ltd.**
Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China
Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701


Conclusion: After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04, CEI 0-21:2022-03.


ISO 9001 certificate:
Certificate no. NOA20109870, issued by NOA testing & certification

Test report of CEI 0-21:2019-04, CEI 0-21:2022-03:
Report no. BL-DG2280242-B01, issued by Dongguan BALUN Testing Technology Co., Ltd. accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Test report of EMC:
Report no. 2330837R-PV-CE-P01V01, issued by DEKRA Testing and Certification (Suzhou), Ltd. accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L5313.
Report no. ENS2304210185E00101R, issued by EMTEK (Shenzhen) Co., Ltd. accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L2291

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).


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HE231-7C-21-11-03

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Annex to Certificate No.: COCPVP02043/23E-01

File no.: PVP02043/23E-01



Description of product(s):

Model types	Hyper-3000	Hyper-3680	Hyper-4600	Hyper-5000	Hyper-6000
General information:					
Firmware	V1.00				
Battery input parameters:					
Battery Type	Lithium				
Battery Voltage Range [V d.c.]	40-60				
Max. Charge Current [A d.c.]	60	80	100	125	
Max. Discharge Current [A d.c.]	60	80	100	125	
AC output (Grid Side) parameters:					
Rated output voltage [V a.c.]	230				
Rated output frequency [Hz]	50/60				
Rated output apparent power [VA]	3000	3680	4600	5000	6000
Max. output current [A a.c.]	13.0	16.0	20.0	21.7	26.1
Power factor cosφ [A]	0.8 leading ...0.8 lagging				
PV input parameters:					
Max. PV Voltage [V d.c.]	600				
MPPT Voltage Range[V d.c.]	125-550				
Max. PV Current [A d.c.]	14	14/14	14/14	14/14	14/14
PV Isc [A d.c.]	17.5	17.5/17.5	17.5/17.5	17.5/17.5	17.5/17.5

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Annex to Certificate No.: COCPVP02043/23E-01

File no.: PVP02043/23E-01



Model types	Retro-3000	Retro-3680	Retro-4600	Retro-5000	Retro-6000
General information:					
Firmware	V1.00				
Battery input parameters:					
Battery Type	Lithium				
Battery Voltage Range [V d.c.] :	40-60				
Max. Charge Current [A d.c.] ... :	60	80	100	125	
Max. Discharge Current [A d.c.] :	60	80	100	125	
AC output (Grid Side) parameters:					
Rated output voltage [V a.c.] ... :	230				
Rated output frequency [Hz]... :	50/60				
Rated output apparent power [VA]	3000	3680	4600	5000	6000
Max. output current [A a.c.]	13.0	16.0	20.0	21.7	26.1
Power factor cosφ [A]	0.8 leading ...0.8 lagging				

The inverters listed above may be installed with the following batteries:

Manufacturer	Hangzhou LIVOLTEK Power Co., Ltd.
Accumulator Model / Battery Model	BLF51-5
Nominal Capacity [Ah]	100
Nominal Energy [kWh]	5.12
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.	

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