



Afore New Energy Technology (Shanghai) Co., Ltd
Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China
Phone: +86-21-54326236 Fax: +86-21-54326136 Email: info@aforeenergy.com

Dichiarazione di Conformita' CEI-021

1. Tipologia di apparecchiatura cui si riferisce la dichiarazione

Costruttore:	Afore New Energy Technology (Shanghai) Co., Ltd. Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China										
Tipo apparecchiatura:	DISPOSITIVO DI INTERFACCIA			PROTEZIONE DI INTERFACCIA			DISPOSITIVO DI CONVERSIONE STATICA			DISPOSITIVO DI GENERAZIONE ROTANTE	
	SI			SI			SI			NO	
Modello:	AF1K-SL-1 AF1K-SL-0	AF1.5K-SL-1 AF1.5K-SL-0	AF2K-SL-1 AF2K-SL-0	AF2.5K-SL-1 AF2.5K-SL-0	AF3K-SL-1 AF3K-SL-0 AF3K-SL	AF3.6K-SL-1 AF3.6K-SL AF3.6K-SL-0	AF4K-SL AF4K-SL-0	AF4.6K-SL AF4.6K-SL-0	AF5K-SL AF5K-SL-0	AF5.5K-SL AF5.5K-SL-0	AF6K-SL AF6K-SL-0
Potenza attiva nominale:	1000 W	1500 W	2000 W	2500 W	3000 W	3600 W	4000 W	4600 W	5000 W	5500 W	6000 W
Versione FW non inferiore a:	V06										
Numero di fasi:	L/N/PE (monofase)										
Nota:	Il dispositivo è in grado di limitare la I _{dc} allo 0,5% della corrente nominale.										

2. Sistemi d'accumulo associabili

Costruttore Modulo Batteria:	Shanghai PYTES Energy Co., Ltd.
Modello Modulo Batteria:	E-BOX 48100R
Tensione Nominale:	51.2V
Numero di Moduli Installabili:	8
CUS (Capacita' Nominale):	5.12KWh
PSN (Potenza di Scarica Nominale):	2560W
PCN (Potenza di Carica Nominale):	2560W
PSmax (Massima Potenza di Scarica):	2560W
PCmax (Massima Potenza di Carica):	2560W



Afore New Energy Technology (Shanghai) Co., Ltd
Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China
Phone: +86-21-54326236 Fax: +86-21-54326136 Email: info@aforeenergy.com

Tecnologia:	elettrochimica al Litio (Lithium-ion)
-------------	---------------------------------------

3. Riferimenti del laboratorio che ha eseguito le prove e dei relativi fascicoli di prova:

Fascicolo di prova n.:	6136775.01COC
Emesso da:	DEKRA Testing and Certification (Suzhou) Co., Ltd. No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Accreditamento:	L5313 (CNAS-ILAC)

4. Dichiarazione di conformità alle prescrizioni CEI-021

Con la presente dichiarazione, resa ai sensi degli artt. 46 e 47 DPR 28 dicembre 2000, n. 445, consapevole delle responsabilità e delle sanzioni penali previste dall'art. 76 del citato DPR per false attestazioni e dichiarazioni mendaci, il sottoscritto **Xinghe Chen**, in qualità di legale rappresentante della società Afore New Energy Technology (Shanghai) Co., Ltd. con sede in Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China, con P.IVA **91310000561932991K**, iscritta al registro delle imprese della pretura di **None** (Cina) con numero di registrazione **00000000202009040020**.

DICHIARA

che gli inverter di propria costruzione di cui al precedente punto 1, sono conformi alle prescrizioni contenute nelle Norme CEI 0-21:2022-03.

Shanghai, 19/10/2023

Afore New Energy Technology (Shanghai) Co., Ltd.
Xinghe Chen



Afore New Energy Technology (Shanghai) Co., Ltd
Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China
Phone: +86-21-54326236 Fax: +86-21-54326136 Email: info@aforeenergy.com

Informativa ai sensi dell'art.13 D. Lgs. 196/2003: i dati sopra riportati sono previsti dalle disposizioni vigenti ai fini del procedimento amministrativo per il quale sono richiesti e verranno utilizzati solo per tale scopo.

*The Ministry of Foreign Affairs of
the People's Republic of China
requests all civil and military
authorities of foreign countries to
allow the bearer of this passport to
pass freely and afford assistance in
case of need.*

国家码/Country Code
CHN

护照号码/Passport No.

EM5232998

姓名/Name

陈星和
CHEN, XINGHE

性别 / Sex

国籍/Nationality

出生日期 / Date of birth

男/M

中國/CHINESE

20 DEC 1966

出生地点/Place of birth

浙江/ZHEJIANG

签发日期/Date of issue

22 5月/MAY 2024

签发地点/Place of issue

上海 / SHANGHAI

有效期至 / Date of expiry

21 5月/MAY 2034

签发机关/Authority

中华人民共和国国家移民管理局
National Immigration Administration, PRC

持照人签名/Bearer's signature

和

2185580469

**POCHNCHEN<<XINGHE<<<<<<<<<<<<<<<<<<<<<<<<<<
EM52329982CHN6612201M3405215LDMCNAMHLKMNA932**

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to: Afore New Energy Technology (Shanghai) Co., Ltd.
Rilasciato a: Build No.7, 333 Wanfang Road, Minhang District, Shanghai, China

For the product: Hybrid Inverter
Tipo prodotto:

Trade name:
Marchio:



Type/Model: AF1K-SL-1, AF1.5K-SL-1, AF2K-SL-1, AF2.5K-SL-1, AF3K-SL-1, AF3.6K-SL-1,
Riferimento modello: AF3K-SL, AF3.6K-SL, AF4K-SL, AF4.6K-SL, AF5K-SL, AF5.5K-SL, AF6K-SL,
AF1K-SL-0, AF1.5K-SL-0, AF2K-SL-0, AF2.5K-SL-0, AF3K-SL-0, AF3.6K-SL-0,
AF4K-SL-0, AF4.6K-SL-0, AF5K-SL-0, AF5.5K-SL-0, AF6K-SL-0

Ratings: See Annex
Dati di targa:

Manufactured by: Afore New Energy Technology (Shanghai) Co., Ltd.
Costruttore: Build No.7, 333 Wanfang Road, Minhang District, Shanghai, China

Requirements: CEI 0-21:2022-03
Requisiti: Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6136775.50

Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6136775.50

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The certificate 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. *Il sottoscritto dichiara che il prodotto di cui sopra è conforme ai requisiti tecnici menzionati. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato. La valutazione non include una verifica della produzione di serie né del luogo di produzione.*

Shanghai, 16 December 2022 Certificate Number: 6136775.01COC
It expires at the latest on: 16 December 2027

DEKRA Testing and Certification (Shanghai) Ltd.

Cliff Lin
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

Accreditation of the certification body by IAS according to ISO/IEC 17065 for products.
Accreditation is valid in the areas of certification mentioned in the certificate.

DEKRA Testing and Certification (Shanghai) Ltd.
3F #250 Jiangchangsan Road Shibei Hi-Tech Park, 200436 Jing'an District, Shanghai, China
T +86 21 6056 7666 F +86 21 6056 7555 www.dekra-product-safety.com



Document no. : 6136775.01COC

Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Models	AF1K-SL-1	AF1.5K-SL-1	AF2K-SL-1	AF2.5K-SL-1	AF3K-SL-1	AF3.6K-SL-1
PV input:						
Max PV voltage (V)	550					
MPPT voltage range (V)	80-500					
Max PV current (A)	18.5					
Isc PV (A)	26					
Max PV power (W)	1500	2300	3000	3800	4500	5400
Battery port:						
Battery type	Li-ion / Lead-acid					
Battery normal voltage (range) (Vdc)	51.2 (40-60)					
Max charge/discharge current (A)	25	40	50	63	80	80
Max charge/discharge power (W)	1000	1500	2000	2500	3000	3600
AC grid (input and output):						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated AC power (W)	1000	1500	2000	2500	3000	3600
Max AC apparent power (VA)	1000	1500	2000	2500	3000	3600
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)					
AC load output (stand alone):						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated continuous AC power (W)	1000	1500	2000	2500	3000	3600
Max continuous AC apparent power (VA)	1000	1500	2000	2500	3000	3600
General:						
Protection class	I					
Degree of protection	IP65					
Overvoltage category	II(DC), III(AC)					
Ambient temperature	-25...+60°C (Derating > 45°C)					

Document no. : 6136775.01COC

Models	AF3K-SL	AF3.6K-SL	AF4K-SL	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL
PV input:							
Max PV voltage (V)	550						
MPPT voltage range (V)	80-500						
Max PV current (A)	18.5 x 2						
Isc PV (A)	26 x 2						
Max PV power (W)	4500	5400	6000	6900	7500	8300	9000
Battery port:							
Battery type	Li-ion / Lead-acid						
Battery normal voltage (range) (Vdc)	51.2 (40-60)						
Max charge/discharge current (A)	80						
Max charge/discharge power (W)	3000	3600	4000	4600	4800	4800	4800
AC grid (input and output):							
Rated voltage (V)	L/N/PE, 230Vac						
Rated frequency (Hz)	50						
Max AC current (A)	14	17	19	22	23	26	28
Rated AC power (W)	3000	3600	4000	4600	5000	5500	6000
Max AC apparent power (VA)	3000	3600	4000	4600	5000	5500	6000
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)						
AC load output (stand alone):							
Rated voltage (V)	L/N/PE, 230Vac						
Rated frequency (Hz)	50						
Max AC current (A)	14	17	19	22	23	26	28
Rated continuous AC power (W)	3000	3600	4000	4600	5000	5500	6000
Max continuous AC apparent power (VA)	3000	3600	4000	4600	5000	5500	6000
General:							
Protection class	I						
Degree of protection	IP65						
Overvoltage category	II(DC), III(AC)						
Ambient temperature	-25...+60°C (Derating > 45°C)						

Document no. : 6136775.01COC

Models	AF1K-SL-0	AF1.5K-SL-0	AF2K-SL-0	AF2.5K-SL-0	AF3K-SL-0	AF3.6K-SL-0
Battery port:						
Battery type	Li-ion / Lead-acid					
Battery normal voltage (range) (Vdc)	51.2 (40-60)					
Max charge/discharge current (A)	25	40	50	63	80	80
Max charge/discharge power (W)	1000	1500	2000	2500	3000	3600
AC grid (input and output):						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated AC power (W)	1000	1500	2000	2500	3000	3600
Max AC apparent power (VA)	1000	1500	2000	2500	3000	3600
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)					
AC load output (stand alone):						
Rated voltage (V)	L/N/PE, 230Vac					
Rated frequency (Hz)	50					
Max AC current (A)	5	7	10	12	14	17
Rated continuous AC power (W)	1000	1500	2000	2500	3000	3600
Max continuous AC apparent power (VA)	1000	1500	2000	2500	3000	3600
General:						
Protection class	I					
Degree of protection	IP65					
Overvoltage category	II(DC), III(AC)					
Ambient temperature	-25...+60°C (Derating > 45°C)					

Document no. : 6136775.01COC

Models	AF4K-SL-0	AF4.6K-SL-0	AF5K-SL-0	AF5.5K-SL-0	AF6K-SL-0
Battery port:					
Battery type	Li-ion / Lead-acid				
Battery normal voltage (range) (Vdc)	51.2 (40-60)				
Max charge/discharge current (A)	80	80	100	120	120
Max charge/discharge power (W)	4000	4600	5000	5500	6000
AC grid (input and output):					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated AC power (W)	4000	4600	5000	5500	6000
Max AC apparent power (VA)	4000	4600	5000	5500	6000
Power factor range	1.0 (-0.8 ~ +0.8 adjustable)				
AC load output (stand alone):					
Rated voltage (V)	L/N/PE, 230Vac				
Rated frequency (Hz)	50				
Max AC current (A)	19	22	23	26	28
Rated continuous AC power (W)	4000	4600	5000	5500	6000
Max continuous AC apparent power (VA)	4000	4600	5000	5500	6000
General:					
Protection class	I				
Degree of protection	IP65				
Overvoltage category	II(DC), III(AC)				
Ambient temperature	-25...+60°C (Derating > 45°C)				

Type of generating unit:

Tipologia di apparato:

Static Conversion Device <i>Dispositivo di conversione statica</i>	Interface Protection <i>Protezione di interfaccia</i>	Interface Protection Device <i>Dispositivo di interfaccia</i>	Rotating Generator Device <i>Dispositivo di generazione rotante</i>
Yes/Si	Yes/Si	Yes/Si	No

REMARK: the device is capable to limit the Idc to 0,5% of the nominal current

NOTA: Il dispositivo è in grado di limitare la Idc allo 0,5% della corrente nominale

Firmware release (SW): V06

Revisione firmware (SW): V06

Document no. : 6136775.01COC

The battery used for testing with the Hybrid Inverter covered by this certificate:

La batteria utilizzata per i test con l'invertitore ibrido coperto dal presente certificato:

Battery Models	E-BOX 48100R	E-BOX 48100R	E-BOX 48100R	E-BOX 48100R
Manufacturer	Shanghai PYTES Energy Co., Ltd.			
Number of battery module in parallel	1	2	3	4
Nominal Voltage	51.2 V			
Nominal capacity	100 Ah	200 Ah	300 Ah	400 Ah
CUS (Storage system useful capacity)	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Battery Models	E-BOX 48100R	E-BOX 48100R	E-BOX 48100R	E-BOX 48100R
Manufacturer	Shanghai PYTES Energy Co., Ltd.			
Number of battery module in parallel	5	6	7	8
Nominal Voltage	51.2 V			
Nominal capacity	500 Ah	600 Ah	700 Ah	800 Ah
CUS (Storage system useful capacity)	25.60 kWh	30.72 kWh	35.84 kWh	40.96 kWh
Remark: When the batteries are connected in parallel, the charge/ discharge current is superimposed and is limited by the maximum current of the battery port of the Hybrid Inverter. The batteries are not integrated into the Hybrid Inverter and must be installed according to the local regulations.				

Testing Laboratory:

Laboratorio prove:

Testing Laboratory for CEI 0-21:2022-03

DEKRA Testing and Certification (Suzhou) Co., Ltd.

No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China

Accreditation Number: L5313 (CNAS-ILAC)

Testing Laboratory for EMC:

1. Intertek Testing Services Shanghai

Building No.86, 1198 Qinzhou Road (North), Caohejing Development Zone, Shanghai 200233, China

Accreditation Number: 3309.02 (A2LA-ILAC)

2. Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.

No.103, Caobao Road, Xuhui District, Shanghai, China

Accreditation Number: L0130 (CNAS-ILAC)

--- End ---