DICHIARAZIONE DI CONFORMITÀ ALLA NORMA CEI 0-16 (V.2022-03+V1:2022-11+V2:2023-05)

Con la presente dichiarazione, resa ai sensi degli art. 47 DPR 28 dicembre 2000, n. 445, consapevole delle responsabilita e dellesanzioni penali previste dall'art. 76 del citato DPR per false attestazioni e dichiarazioni mendaci, il sottoscritto Zhang Jiawei residente in Pujiang Town, Minhang District, Shanghai, China, numero di passaporto EF1263590, in qualità di senior Solution Manager della societa Shanghai SIGEN New Energy Technology Co., Ltd. sede in No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone, Shanghai, P.R.China

DICHIARA

che i prodotti indicati di seguito sono conformi alle norme CEI 0-16:2022-03 + V1:2022-11 + V2:2023-05

1. Caratteristiche tecniche dell'inverter

Generatori e Convertitori										
Marca	Shanghai SIGEN New Energy Technology Co., Ltd.									
Tipo	Convertitore statico									
Modello	SigenStor EC 5.0 TP	SigenStor EC 6.0 TP	SigenStor EC 8.0 TP	SigenStor EC 10.0 TP	SigenStor EC 12.0 TP	SigenStor EC 15.0 TP	SigenStor EC 17.0 TP	SigenStor EC 20.0 TP	SigenStor EC 25.0 TP	SigenStor EC 30.0 TP
Potenza nominale unità (kW)	5	6	8	10	12	15	17	20	25	30
Corrente nominale (In[A])	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38	45.5
Corrente corto-circuito (Icc[A])	8.4	10	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50
Potenza di CC complessiva (kW)	5.5	6.6	8.8	11	13.2	16.5	18.7	22	27.5	33
Cos phi nominale	1									
Versione firmware	V100R001C21									
Matr. Generatore	Controllare SN del dispositivo									
N.Poli	3W+N+PE									
Tensione nominale	380/220 Va.c., 400/230 Va.c.									
Servizio generatori	Continuo									
Modalità di avvio generatori	Automatica da rete									
Tipo inverter	Bidirezionale									
Interblocco di funzionamento	Assente									
Comunicazione	CEI 0-16:2022-03 + V1:2022-11 + V2:2023-05									

Generatori e Convertitori										
Marca	Shanghai SIGEN New Energy Technology Co., Ltd.									
Tipo	Convertitore statico									
Modello	SigenStor AC 5.0 TP	SigenStor AC 6.0 TP	SigenStor AC 8.0 TP	SigenStor AC 10.0 TP	SigenStor AC 12.0 TP	SigenStor AC 15.0 TP	SigenStor AC 17.0 TP	SigenStor AC 20.0 TP	SigenStor AC 25.0 TP	SigenStor AC 30.0 TP
Potenza nominale unità (kW)	5	6	8	10	12	15	17	20	25	30
Corrente nominale (In[A])	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38	45.5
Corrente corto-circuito (Icc[A])	8.4	10	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50
Potenza di CC complessiva (kW)	5.5	6.6	8.8	11	13.2	16.5	18.7	22	27.5	33
Cos phi nominale	1	1	1	1	1	1	1	1	1	1
Versione firmware	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21
Matr. Generatore	Controllare SN del dispositivo									
N.Poli	3W+N+PE									
Tensione nominale	380/220 Va.c., 400/230 Va.c.									
Servizio generatori	Continuo									
Modalità di avvio generatori	Automatica da rete									
Tipo inverter	Bidirezionale									
Interblocco di funzionamento	Assente									
Comunicazione	CEI 0-16:2022-03 + V1:2022-11 + V2:2023-05									

Generatori e Convertitori										
Marca	Shanghai SIGEN New Energy Technology Co., Ltd.									
Tipo	Convertitore statico									
Modello	Sigen Hybrid 5.0 TP	Sigen Hybrid 6.0 TP	Sigen Hybrid 8.0 TP	Sigen Hybrid 10.0 TP	Sigen Hybrid 12.0 TP	Sigen Hybrid 15.0 TP	Sigen Hybrid 17.0 TP	Sigen Hybrid 20.0 TP	Sigen Hybrid 25.0 TP	Sigen Hybrid 30.0 TP
Potenza nominale unità (kW)	5	6	8	10	12	15	17	20	25	30
Corrente nominale (In[A])	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38	45.5
Corrente corto-circuito (Icc[A])	8.4	10	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50
Potenza di CC complessiva (kW)	5.5	6.6	8.8	11	13.2	16.5	18.7	22	27.5	33
Cos phi nominale	1	1	1	1	1	1	1	1	1	1
Versione firmware	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21	V100R001C21
Matr. Generatore	Controllare SN del dispositivo									
N.Poli	3W+N+PE									
Tensione nominale	380/220 Va.c., 400/230 Va.c.									
Servizio generatori	Continuo									
Modalità di avvio generatori	Automatica da rete									
Tipo inverter	Bidirezionale									
Interblocco di funzionamento	Assente									
Comunicazione	CEI 0-16:2022-03 + V1:2022-11 + V2:2023-05									

2. Caratteristiche tecniche del dispositivo d'interfaccia (DDI) integrato nell'inverter

Marca	Hongfa
Modello	HF165F
Tipo	Relè
Numero	8
Interblocchi di funzionamento	No

3 Sistema di protezione d'interfaccia (SPI) integrato nell'inverter

Marca	Shanghai SIGEN New Energy Technology Co., Ltd.
Modello	Indicare il modello dell'inverter, uno tra: SigenStor EC 5.0 TP SigenStor EC 6.0 TP SigenStor EC 8.0 TP SigenStor EC 10.0 TP SigenStor EC 12.0 TP SigenStor EC 15.0 TP SigenStor EC 17.0 TP SigenStor EC 20.0 TP SigenStor EC 25.0 TP SigenStor EC 30.0 TP SigenStor AC 5.0 TP SigenStor AC 6.0 TP SigenStor AC 8.0 TP SigenStor AC 10.0 TP SigenStor AC 12.0 TP SigenStor AC 15.0 TP SigenStor AC 17.0 TP SigenStor AC 20.0 TP SigenStor AC 25.0 TP SigenStor AC 30.0 TP Sigen Hybrid 5.0 TP Sigen Hybrid 6.0 TP Sigen Hybrid 8.0 TP Sigen Hybrid 10.0 TP Sigen Hybrid 12.0 TP Sigen Hybrid 15.0 TP Sigen Hybrid 17.0 TP Sigen Hybrid 20.0 TP Sigen Hybrid 25.0 TP Sigen Hybrid 30.0 TP
Firmware	V100R001C21
Integrato in altri apparati	Sì, integrato nell'inverter

4 Sistema di accumulo SigenStor BAT 5.0/8.0

Tipologia Schema elettrico	SdA lato produzione
Modalità di connessione del sistema di accumulo	Connessione lato Corrente Continua
Come sarà alimentato il sistema di accumulo?	Dall'impianto di produzione e dalla rete del distributore
Intervallo di tensione operativa	600-900 V
Potenza Nominale del sistema di accumulo	Vedere le tabelle nella DiCo
Potenza di corto circuito complessiva	Vedere le tabelle nella DiCo
Capacità di accumulo nominale	Vedere le tabelle nella DiCo
Descrizione della tipologia Chimica della cella	Elettrochimica
Interfaccia integrata	Integrata nell'inverter
CUS	Vedere le tabelle nella DiCo
Potenza di scarica nominale	Vedere le tabelle nella DiCo
Potenza di Carica nominale	Vedere le tabelle nella DiCo
Potenza di carica massima	Vedere le tabelle nella DiCo
Potenza di scarica massima	Vedere le tabelle nella DiCo
Tipo inverter	Bidirezionale
Predisposizione per protocollo di comunicazione CEI EN 61850	No

Modello/Tipo di riferimento	Inverter conversion device: SigenStor EC x TP, Sigen Hybrid x TP, SigenStor AC x TP, Sigen PV Max x TP (x: 5.0, 6.0, 8.0, 10.0, 12.0, 15.0, 17.0, 20.0, 25.0, 30.0) Brands: Batteries and BMS – Battery Management System: Battery module model: SigenStor BAT 5.0*1, SigenStor BAT 5.0*2, SigenStor BAT 5.0*3, SigenStor BAT 5.0*4, SigenStor BAT 5.0*5, SigenStor BAT 5.0*6, SigenStor BAT 8.0*1, SigenStor BAT 8.0*2, SigenStor BAT 8.0*3, SigenStor BAT 8.0*4, SigenStor BAT 8.0*5, SigenStor BAT 8.0*6 Battery pack: SigenStor BAT 5.0, SigenStor BAT 8.0 Control model: SES1PWR3 VB Brands: SigenStor BAT
Versione firmware dell'inverter	V100R001C21
Numero di fasi	Three-phase
Potenza nominale	5000W (SigenStor EC 5.0 TP, Sigen Hybrid 5.0 TP, SigenStor AC 5.0 TP, Sigen PV Max 5.0 TP) 6000W (SigenStor EC 6.0 TP, Sigen Hybrid 6.0 TP, SigenStor AC 6.0 TP, Sigen PV Max 6.0 TP) 8000W (SigenStor EC 8.0 TP, Sigen Hybrid 8.0 TP, SigenStor AC 8.0 TP, Sigen PV Max 8.0 TP) 10000W (SigenStor EC 10.0 TP, Sigen Hybrid 10.0 TP, SigenStor AC 10.0 TP, Sigen PV Max 10.0 TP) 12000W (SigenStor EC 12.0 TP, Sigen Hybrid 12.0 TP, SigenStor AC 12.0 TP, Sigen PV Max 12.0 TP) 15000W (SigenStor EC 15.0 TP, Sigen Hybrid 15.0 TP, SigenStor AC 15.0 TP, Sigen PV Max 15.0 TP) 17000W (SigenStor EC 17.0 TP, Sigen Hybrid 17.0 TP, SigenStor AC 17.0 TP, Sigen PV Max 17.0 TP) 20000W (SigenStor EC 20.0 TP, Sigen Hybrid 20.0 TP, SigenStor AC 20.0 TP, Sigen PV Max 20.0 TP) 25000W (SigenStor EC 25.0 TP, Sigen Hybrid 25.0 TP, SigenStor AC 25.0 TP, Sigen PV Max 25.0 TP) 30000W (SigenStor EC 30.0 TP, Sigen Hybrid 30.0 TP, SigenStor AC 30.0 TP, Sigen PV Max 30.0 TP)
Tipo	Bidirezionale
CUS(capacità utile del sistema di stoccaggio)	5.38KWh ~ 32.28KWh (1-6 SigenStor BAT 5.0 Parallelo), 8.06KWh ~ 48.36KWh (1-6 SigenStor BAT 8.0 Parallelo)
Psn (potenza di scarica nominale)	2500W (SigenStor BAT 5.0*1), 5000W (SigenStor BAT 5.0*2), 7500W (SigenStor BAT 5.0*3), 10000W (SigenStor BAT 5.0*4), 12500W (SigenStor BAT 5.0*5), 15000W (SigenStor BAT 5.0*6), 4000W (SigenStor BAT 8.0*1), 8000W (SigenStor BAT 8.0*2), 12000W (SigenStor BAT 8.0*3), 16000W (SigenStor BAT 8.0*4), 20000W (SigenStor BAT 8.0*5), 24000W (SigenStor BAT 8.0*6)
Pcn (potenza di carica nominale).....:	2500W (SigenStor BAT 5.0*1), 5000W (SigenStor BAT 5.0*2), 7500W (SigenStor BAT 5.0*3), 10000W (SigenStor BAT 5.0*4), 12500W (SigenStor BAT 5.0*5), 15000W (SigenStor BAT 5.0*6), 4000W (SigenStor BAT 8.0*1), 8000W (SigenStor BAT 8.0*2), 12000W (SigenStor BAT 8.0*3), 16000W (SigenStor BAT 8.0*4), 20000W (SigenStor BAT 8.0*5), 24000W (SigenStor BAT 8.0*6)
Psmax (potenza massima di scarica).....:	Come sopra
Pcmax (potenza massima di carica).....:	Come sopra
BMS Firmware Version.....:	V100R001
BMS software Version.....:	V100R001C00

Batteria		CUS (capacità utile del sistema di stoccaggio)	
Modello	Produttore	Capacità di ogni modulo batteria (kWh)	Numero di moduli Max consigliati dal produttore
SigenStor BAT 5.0*1	Shanghai SIGEN New Energy Technology Co., Ltd.	5.38	1
SigenStor BAT 5.0*2		10.76	2
SigenStor BAT 5.0*3		16.14	3
SigenStor BAT 5.0*4		21.52	4
SigenStor BAT 5.0*5		26.90	5
SigenStor BAT 5.0*6		32.28	6
SigenStor BAT 8.0*1		8.06	1
SigenStor BAT 8.0*2		16.12	2
SigenStor BAT 8.0*3		24.18	3
SigenStor BAT 8.0*4		32.24	4
SigenStor BAT 8.0*5		40.30	5
SigenStor BAT 8.0*6		48.36	6

Modello	SigenStor BAT 5.0*1	SigenStor BAT 5.0*2	SigenStor BAT 5.0*3	SigenStor BAT 5.0*4	SigenStor BAT 5.0*5	SigenStor BAT 5.0*6
	Pcmax*/Psmax*(W)					
SigenStor EC 5.0 TP Sigen Hybrid 5.0 TP SigenStor AC 5.0 TP	2500/2500	5000/5000	5000/5000	5000/5000	5000/5000	5000/5000
SigenStor EC 6.0 TP Sigen Hybrid 6.0 TP SigenStor AC 6.0 TP	2500/2500	5000/5000	6000/6000	6000/6000	6000/6000	6000/6000
SigenStor EC 8.0 TP Sigen Hybrid 8.0 TP SigenStor AC 8.0 TP	2500/2500	5000/5000	7500/7500	8000/8000	8000/8000	8000/8000
SigenStor EC 10.0 TP Sigen Hybrid 10.0 TP SigenStor AC 10.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	10000/10000	10000/10000
SigenStor EC 12.0 TP Sigen Hybrid 12.0 TP SigenStor AC 12.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12000/12000	12000/12000
SigenStor EC 15.0 TP Sigen Hybrid 15.0 TP SigenStor AC 15.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 17.0 TP Sigen Hybrid 17.0 TP SigenStor AC 17.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 20.0 TP Sigen Hybrid 20.0 TP SigenStor AC 20.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 25.0 TP Sigen Hybrid 25.0 TP SigenStor AC 25.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 30.0 TP Sigen Hybrid 30.0 TP SigenStor AC 30.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000

Nota: Pcmax* e Psmax* sono limitate dalla potenza nominale dell'inverter, se non sono limitate equivalgono a Pcmax e Psmax rispettivamente.

Modello	SigenStor BAT 8.0*1	SigenStor BAT 8.0*2	SigenStor BAT 8.0*3	SigenStor BAT 8.0*4	SigenStor BAT 8.0*5	SigenStor BAT 8.0*6
	Pcmax*/Psmax*(W)					
SigenStor EC 5.0 TP Sigen Hybrid 5.0 TP SigenStor AC 5.0 TP	4000/4000	5000/5000	5000/5000	5000/5000	5000/5000	5000/5000
SigenStor EC 6.0 TP Sigen Hybrid 6.0 TP SigenStor AC 6.0 TP	4000/4000	6000/6000	6000/6000	6000/6000	6000/6000	6000/6000
SigenStor EC 8.0 TP Sigen Hybrid 8.0 TP SigenStor AC 8.0 TP	4000/4000	8000/8000	8000/8000	8000/8000	8000/8000	8000/8000
SigenStor EC 10.0 TP Sigen Hybrid 10.0 TP SigenStor AC 10.0 TP	4000/4000	8000/8000	10000/10000	10000/10000	10000/10000	10000/10000
SigenStor EC 12.0 TP Sigen Hybrid 12.0 TP SigenStor AC 12.0 TP	4000/4000	8000/8000	12000/12000	12000/12000	12000/12000	12000/12000
SigenStor EC 15.0 TP Sigen Hybrid 15.0 TP SigenStor AC 15.0 TP	4000/4000	8000/8000	12000/12000	15000/15000	15000/15000	15000/15000
SigenStor EC 17.0 TP Sigen Hybrid 17.0 TP SigenStor AC 17.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	17000/17000	17000/17000
SigenStor EC 20.0 TP Sigen Hybrid 20.0 TP SigenStor AC 20.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	20000/20000
SigenStor EC 25.0 TP Sigen Hybrid 25.0 TP SigenStor AC 25.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	24000/24000
SigenStor EC 30.0 TP Sigen Hybrid 30.0 TP SigenStor AC 30.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	24000/24000
Nota: Pcmax* e Psmax* sono limitate dalla potenza nominale dell'inverter, se non sono limitate equivalgono a Pcmax e Psmax rispettivamente.						

SIGENERGY

中华人民共和国外交部请各国军政机关对持照人予以通行的便利和必要的协助。

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.

中华人民共和国 PEOPLE'S REPUBLIC OF CHINA

护 照 PASSPORT

类型/Type P

国家码/Country Code CHN

护照号码/Passport No. EF1263590

姓名/Name

张 嘉 伟
ZHANG, JIAWEI



性别/Sex 男/M

国籍/Nationality 中国/CHINESE

出生日期/Date of birth 15 NOV 1992

出生地点/Place of birth 陕西/SHAANXI

签发日期/Date of issue 17 1月/JAN 2019

签发地点/Place of issue 广东/GUANGDONG

有效期至/Date of expiry 16 1月/JAN 2029

签发机关/Authority 公安部出入境管理局
MPS Exit & Entry Administration

持照人签名/Bearer's signature 张嘉伟



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P<CHNZHANG<<JIAWEI<<<<<<<<<<<<<<<<<<<<<<<<<<<<

EF12635901CHN9211155M2901167NFMFLMMOMOLAA944

Certificate of Conformity

Certificate Number: CN-PVES-240101

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specification/standard at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Shanghai SIGEN New Energy Technology Co., Ltd. No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone, Shanghai, P.R.China
Product:	PV inverter & Hybrid Inverter & Storage System
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	See appendix of Certificate of Conformity
Brand Name:	SIGENERGY
Product Complies with:	CEI 0-16:2022-03 + V1:2022-11 + V2:2023-05: Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report Number:	240201172GZU-001, 28 Mar. 2024 Issued by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

Additional information in Appendix

Signature
Certification Manager: Grady Ye
Date: 29 March 2024

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 306B

THis Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240101

Test item description……:	PV inverter & Hybrid Inverter & Storage System
Trade Mark……:	SIGENERGY
Manufacturer……:	Same as Applicant
Model/Type referenc……:	Inverter conversion device: SigenStor EC x TP, Sigen Hybrid x TP, SigenStor AC x TP, Sigen PV Max x TP (x: 5.0, 6.0, 8.0, 10.0, 12.0, 15.0, 17.0, 20.0, 25.0, 30.0) Brands: SIGENERGY Batteries and BMS – Battery Management System: Battery module model: SigenStor BAT 5.0*1, SigenStor BAT 5.0*2, SigenStor BAT 5.0*3, SigenStor BAT 5.0*4, SigenStor BAT 5.0*5, SigenStor BAT 5.0*6, SigenStor BAT 8.0*1, SigenStor BAT 8.0*2, SigenStor BAT 8.0*3, SigenStor BAT 8.0*4, SigenStor BAT 8.0*5, SigenStor BAT 8.0*6 Battery pack: SigenStor BAT 5.0, SigenStor BAT 8.0 Control model: SES1PWR3 VB Brands: SigenStor BAT
Inverter Firmware Version……:	V100R001C21
Number of phases……:	Three-phase
Nominal Power……:	5000W (SigenStor EC 5.0 TP, Sigen Hybrid 5.0 TP, SigenStor AC 5.0 TP, Sigen PV Max 5.0 TP) 6000W (SigenStor EC 6.0 TP, Sigen Hybrid 6.0 TP, SigenStor AC 6.0 TP, Sigen PV Max 6.0 TP) 8000W (SigenStor EC 8.0 TP, Sigen Hybrid 8.0 TP, SigenStor AC 8.0 TP, Sigen PV Max 8.0 TP) 10000W (SigenStor EC 10.0 TP, Sigen Hybrid 10.0 TP, SigenStor AC 10.0 TP, Sigen PV Max 10.0 TP) 12000W (SigenStor EC 12.0 TP, Sigen Hybrid 12.0 TP, SigenStor AC 12.0 TP, Sigen PV Max 12.0 TP) 15000W (SigenStor EC 15.0 TP, Sigen Hybrid 15.0 TP, SigenStor AC 15.0 TP, Sigen PV Max 15.0 TP) 17000W (SigenStor EC 17.0 TP, Sigen Hybrid 17.0 TP, SigenStor AC 17.0 TP, Sigen PV Max 17.0 TP) 20000W (SigenStor EC 20.0 TP, Sigen Hybrid 20.0 TP, SigenStor AC 20.0 TP, Sigen PV Max 20.0 TP) 25000W (SigenStor EC 25.0 TP, Sigen Hybrid 25.0 TP, SigenStor AC 25.0 TP, Sigen PV Max 25.0 TP) 30000W (SigenStor EC 30.0 TP, Sigen Hybrid 30.0 TP, SigenStor AC 30.0 TP, Sigen PV Max 30.0 TP)

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240101

Type……:	Bidirectional
CUS(useful capacity of the storage system)……..:	5.38KWh ~ 32.28KWh (1-6 SigenStor BAT 5.0 Parallel), 8.06KWh ~ 48.36KWh (1-6 SigenStor BAT 8.0 Parallel)
Psn (nominal discharge power)……..:	2500W (SigenStor BAT 5.0*1), 5000W (SigenStor BAT 5.0*2), 7500W (SigenStor BAT 5.0*3), 10000W (SigenStor BAT 5.0*4), 12500W (SigenStor BAT 5.0*5), 15000W (SigenStor BAT 5.0*6), 4000W (SigenStor BAT 8.0*1), 8000W (SigenStor BAT 8.0*2), 12000W (SigenStor BAT 8.0*3), 16000W (SigenStor BAT 8.0*4), 20000W (SigenStor BAT 8.0*5), 24000W (SigenStor BAT 8.0*6)
Pcn (nominal charge power)……..:	2500W (SigenStor BAT 5.0*1), 5000W (SigenStor BAT 5.0*2), 7500W (SigenStor BAT 5.0*3), 10000W (SigenStor BAT 5.0*4), 12500W (SigenStor BAT 5.0*5), 15000W (SigenStor BAT 5.0*6), 4000W (SigenStor BAT 8.0*1), 8000W (SigenStor BAT 8.0*2), 12000W (SigenStor BAT 8.0*3), 16000W (SigenStor BAT 8.0*4), 20000W (SigenStor BAT 8.0*5), 24000W (SigenStor BAT 8.0*6)
Psmax (maximum discharge power)……:	Same as above
Pcmax (maximum charge power)……..:	Same as above
BMS Firmware Version……:	V100R001
BMS software Version……:	V100R001C00

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APPENDIX: Certificate of Conformity

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Battery		CUS (useful capacity of the storage system)	
Model	Manufacturer	Capacity of per battery module (kWh)	Number of Max modules recommended by the manufacturer
SigenStor BAT 5.0*1	Shanghai SIGEN New Energy Technology Co., Ltd.	5.38	1
SigenStor BAT 5.0*2		10.76	2
SigenStor BAT 5.0*3		16.14	3
SigenStor BAT 5.0*4		21.52	4
SigenStor BAT 5.0*5		26.90	5
SigenStor BAT 5.0*6		32.28	6
SigenStor BAT 8.0*1		8.06	1
SigenStor BAT 8.0*2		16.12	2
SigenStor BAT 8.0*3		24.18	3
SigenStor BAT 8.0*4		32.24	4
SigenStor BAT 8.0*5		40.30	5
SigenStor BAT 8.0*6		48.36	6

Note:

1. Batteries are not integrated within the inverter and shall be installed according to local regulation.

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Model	SigenStor BAT 5.0*1	SigenStor BAT 5.0*2	SigenStor BAT 5.0*3	SigenStor BAT 5.0*4	SigenStor BAT 5.0*5	SigenStor BAT 5.0*6
	Pcmax*/Psmax*(W)					
SigenStor EC 5.0 TP Sigen Hybrid 5.0 TP SigenStor AC 5.0 TP	2500/2500	5000/5000	5000/5000	5000/5000	5000/5000	5000/5000
SigenStor EC 6.0 TP Sigen Hybrid 6.0 TP SigenStor AC 6.0 TP	2500/2500	5000/5000	6000/6000	6000/6000	6000/6000	6000/6000
SigenStor EC 8.0 TP Sigen Hybrid 8.0 TP SigenStor AC 8.0 TP	2500/2500	5000/5000	7500/7500	8000/8000	8000/8000	8000/8000
SigenStor EC 10.0 TP Sigen Hybrid 10.0 TP SigenStor AC 10.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	10000/10000	10000/10000
SigenStor EC 12.0 TP Sigen Hybrid 12.0 TP SigenStor AC 12.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12000/12000	12000/12000
SigenStor EC 15.0 TP Sigen Hybrid 15.0 TP SigenStor AC 15.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 17.0 TP Sigen Hybrid 17.0 TP SigenStor AC 17.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 20.0 TP Sigen Hybrid 20.0 TP SigenStor AC 20.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 25.0 TP Sigen Hybrid 25.0 TP SigenStor AC 25.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
SigenStor EC 30.0 TP Sigen Hybrid 30.0 TP SigenStor AC 30.0 TP	2500/2500	5000/5000	7500/7500	10000/10000	12500/12500	15000/15000
Remark: Pcmax* and Psmax* are limited by nominal power of the inverter, if not limited equaled to Pcmax and Psmax respectively.						

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Model	SigenStor BAT 8.0*1	SigenStor BAT 8.0*2	SigenStor BAT 8.0*3	SigenStor BAT 8.0*4	SigenStor BAT 8.0*5	SigenStor BAT 8.0*6
	Pcmax*/Psmax*(W)					
SigenStor EC 5.0 TP Sigen Hybrid 5.0 TP SigenStor AC 5.0 TP	4000/4000	5000/5000	5000/5000	5000/5000	5000/5000	5000/5000
SigenStor EC 6.0 TP Sigen Hybrid 6.0 TP SigenStor AC 6.0 TP	4000/4000	6000/6000	6000/6000	6000/6000	6000/6000	6000/6000
SigenStor EC 8.0 TP Sigen Hybrid 8.0 TP SigenStor AC 8.0 TP	4000/4000	8000/8000	8000/8000	8000/8000	8000/8000	8000/8000
SigenStor EC 10.0 TP Sigen Hybrid 10.0 TP SigenStor AC 10.0 TP	4000/4000	8000/8000	10000/10000	10000/10000	10000/10000	10000/10000
SigenStor EC 12.0 TP Sigen Hybrid 12.0 TP SigenStor AC 12.0 TP	4000/4000	8000/8000	12000/12000	12000/12000	12000/12000	12000/12000
SigenStor EC 15.0 TP Sigen Hybrid 15.0 TP SigenStor AC 15.0 TP	4000/4000	8000/8000	12000/12000	15000/15000	15000/15000	15000/15000
SigenStor EC 17.0 TP Sigen Hybrid 17.0 TP SigenStor AC 17.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	17000/17000	17000/17000
SigenStor EC 20.0 TP Sigen Hybrid 20.0 TP SigenStor AC 20.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	20000/20000
SigenStor EC 25.0 TP Sigen Hybrid 25.0 TP SigenStor AC 25.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	24000/24000
SigenStor EC 30.0 TP Sigen Hybrid 30.0 TP SigenStor AC 30.0 TP	4000/4000	8000/8000	12000/12000	16000/16000	20000/20000	24000/24000
Remark: Pcmax* and Psmax* are limited by nominal power of the inverter, if not limited equaled to Pcmax and Psmax respectively.						

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SigenStor EC, Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	30.0 TP
Input (PV)										
Recommended max. PV power	8000 W	9600 W	12800 W	16000 W	19200 W	24000 W	27200 W	32000 W	40000 W	48000 W
Max. input voltage	1100 Vd.c.									
MPPT voltage range	160~1000 Vd.c.									
Start-up voltage	180 Vd.c.									
Nominal DC input voltage	600 Vd.c.									
Max. input current per MPPT	16A									
Max. short-circuit current	20A									
Number of MPP trackers	2			3			4			
Max. input number per MPP tracker	1									
Input (DC Battery)										
Operating voltage range	600~900 Vd.c.									
Battery maximum continuous current	22.5A	27A	36A	40A						
Output (On Grid)										
Rated output power	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W	25000 W	30000 W
Max. apparent power	5500 VA	6600 VA	8800V A	11000 VA	13200 VA	16500 VA	18700 VA	22000 VA	27500 VA	33000 VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A	50.0A
Rated output voltage	380/220 Va.c., 400/230 Va.c.									
Rated AC grid frequency	50/60Hz									
Adjustable power factor	0.8 leading~ 0.8 lagging									
General Data										
Operating temperature range	-30 ~ + 60 °C									
Degree of protection	IP66									
FW Version	V100R001C21									

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SigenStor AC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	30.0 TP
Input (DC Battery)										
Operating voltage range	600~900 Vd.c.									
Battery maximum continuous current	22.5A	27A	36A	40A						
Output (On Grid)										
Rated output power	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W	25000 W	30000 W
Max. apparent power	5500VA	6600VA	8800VA	11000 VA	13200 VA	16500 VA	18700 VA	22000 VA	27500 VA	33000 VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A	50.0A
Rated output voltage	380/220 Va.c., 400/230 Va.c.									
Rated AC grid frequency	50/60Hz									
Adjustable power factor	0.8 leading~ 0.8 lagging									
General Data										
Operating temperature range	-30 ~ + 60 °C									
Degree of protection	IP66									
FW Version	V100R001C21									

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Sigen PV Max	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	30.0 TP
Input (PV)										
Recommended max. PV power	8000 W	9600 W	12800 W	16000 W	19200 W	24000 W	27200 W	32000 W	40000 W	48000 W
Max. input voltage	1100 Vd.c.									
MPPT voltage range	160~1000 Vd.c.									
Start-up voltage	180 Vd.c.									
Nominal DC input voltage	600 Vd.c.									
Max. input current per MPPT	16A									
Max. short-circuit current	20A									
Number of MPP trackers	2			3			4			
Max. input number per MPP tracker	1									
Output (On Grid)										
Rated output power	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W	17000 W	20000 W	25000 W	30000 W
Max. apparent power	5500VA	6600VA	8800VA	11000 VA	13200 VA	16500 VA	18700 VA	22000 VA	27500 VA	33000 VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A	50.0A
Rated output voltage	380/220 Va.c., 400/230 Va.c.									
Rated AC grid frequency	50/60Hz									
Adjustable power factor	0.8 leading~ 0.8 lagging									
General Data										
Operating temperature range	-30 ~ + 60 °C									
Degree of protection	IP66									
FW Version	V100R001C21									

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System Model	SigenStor BAT 5.0*1	SigenStor BAT 5.0*2	SigenStor BAT 5.0*3	SigenStor BAT 5.0*4	SigenStor BAT 5.0*5	SigenStor BAT 5.0*6
Manufacturer information	SHANGHAI SIGEN NEW ENERGY TECHNOLOGY Co., LTD.					
Nominal Voltage	750V					
Rate input and output power	2.5kW	5.0kW	7.5kW	10.0kW	12.5kW	15.0kW
Rated energy	5.38kWh	10.76kWh	16.14kWh	21.52kWh	26.9kWh	32.28kWh
Operating voltage range	600~900V					
Battery type	$LiFePO_4$					
Battery module	SigenStor BAT 5.0					
Size(mm)	767*260*270	767*260 *(270*2)	767*260 *(270*3)	767*260 *(270*4)	767*260 *(270*5)	767*260 *(270*6)
weight	55kg	110kg	165kg	220kg	275kg	330kg
Communication	CAN					
Operation temperature	-20~55℃					

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System Model	SigenStor BAT 8.0*1	SigenStor BAT 8.0*2	SigenStor BAT 8.0*3	SigenStor BAT 8.0*4	SigenStor BAT 8.0*5	SigenStor BAT 8.0*6
Manufacturer information	SHANGHAI SIGEN NEW ENERGY TECHNOLOGY Co., LTD.					
Nominal Voltage	750V					
Rate input and output power	4.0kW	8.0kW	12.0kW	16.0kW	20.0kW	24.0kW
Rated energy	8.06kWh	16.12kWh	24.18kWh	32.24kWh	40.3kWh	48.36kWh
Operating voltage range	600~900V					
Battery type	$LiFePO_4$					
Battery module	SigenStor BAT 8.0					
Size(mm)	767*260*270	767*260 *(270*2)	767*260 *(270*3)	767*260 *(270*4)	767*260 *(270*5)	767*260 *(270*6)
weight	70kg	140kg	210kg	280kg	350kg	420kg
Communication	CAN					
Operation temperature	-20~55℃					

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TYPE OF APPARATUS: PV inverter & Hybrid Inverter & Storage System			
Number of phases: Three-phase			
DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
		☒	
Maximum power of the destination plant: <400kW or ≥ 400 KW Having examined the ISO 9001 certificate of the manufacturer No: 132759/1, issued by: Shanghai NQA Certification Co., Ltd.			

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