



Shanghai Sermatec Energy Technology Co., Ltd.

No.3939, Jiasong north road, Jiading District, Shanghai

Tel. +86 021 69986096

[www.sermatec.com.cn](http://www.sermatec.com.cn) - [sales@sermatec.com.cn](mailto:sales@sermatec.com.cn)

**Dichiarazione di conformità alle prescrizioni della Norma CEI 0-16**

*Declaration of conformity to the requirements of the standard CEI 0-16*

**TIPOLOGIA DEL SISTEMA DI ACCUMULO CUI SI RIFERISCE LA DICHIARAZIONE:**

*TYPE OF STORAGE SYSTEM TO WHICH THIS DECLARATION REFERS:*

DISPOSITIVO DI INTERFACCIA INTERFACE DEVICE	PROTEZIONE DI INTERFACCIA INTERFACE PROTECTION	DISPOSITIVO DI CONVERSIONE STATICA STATIC CONVERSION DEVICE	DISPOSITIVO DI GENERAZIONE ROTANTE ROTARY GENERATING DEVICE
No	No	Sì/Yes	No

COSTRUTTORE: MANUFACTURER	MODELLO DI INVERTER: INVERTER MODEL	VERSIONE FIRMWARE: FIRMWARE VERSION:	NUMERO DI FASI (monofase/trifase) NUMBER OF PHASE (single/triphase)	POTENZA NOMINALE: RATED POWER [W]
Shanghai Sermatec Energy Technology Co., Ltd.  No.3939, Jiasong north road, Jiading District, Shanghai PEOPLE'S REPUBLIC OF CHINA	SMT-60AD	V417D20A03 V519A02	Trifase Three-phase	60.000
	SMT-60AD+SMT+60DC	o superior or upper		60.000

**Gli inverter suddetti sono certificati in combinazione con una delle seguenti opzioni di batteria al Litio:**

*The inverters here above listed are certified according with one of the following options of Lithium Battery:*

COSTRUTTORE: MANUFACTURER	MODELLO DEL BMS BMS MODUL MODEL	MODELLO MODULO BATTERIA BATTERY MODUL MODEL	Capacità del sistema di accumulo (CUS) [Wh] Storage system capacity (CUS) [Wh]	Numero di batterie raccomandate dal costruttore Number(s) of battery module recommended by manufacturer	
				MODELLO DI INVERTER: INVERTER MODEL	
				SMT-60AD+SMT+60DC	SMT-60AD
Pylontech	SC1000-100S	H48074	n. di moduli batteria x 3550 n. of battery modules x 3550	n da 5 a 15 n from 5 to 15	--
	SC1000-200E	H32148	n. di moduli batteria x 4736 n. of battery modules x 4736	n da 7 a 27 from 7 to 27	n da 22 a 27 from 22 to 27



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**Esaminati i Fascicoli Prove n° 64290203074901, emessi dal laboratorio TÜV SÜD Certification and Testing (China) Co., Ltd con accreditamento DAkkS n. D-PL-19065-01-00.**

**Ai sensi degli articoli 76 del DPR 28 Dicembre 2000, n° 445, il sottoscritto Wang Jianpeng, in qualità di legale rappresentante di Shanghai Sermatec Energy Technology Co., Ltd., No.3939, Jiasong north road, Jiading District, Shanghai, China, dichiara che il sistema di accumulo, combinazione degli inverter ibridi di propria costruzione con le batterie sopra menzionate, è conforme alle prescrizioni della CEI-0-16: 2019-04**

*Taken into account test report No. 64290203074901 issued by test TÜV SÜD Certification and Testing (China) Co., Ltd with DAkkS accreditation No. D-PL-19065-01-00*

*According with the articles 76 of Italian DPR 28 December 2000, n° 445, the undersigned Wang Jianpeng, as legal representative of Shanghai Sermatec Energy Technology Co., Ltd., No.3939, Jiasong north road, Jiading District, Shanghai, China, herewith declare that the storage system, combination of hybrid inverters manufactured by us with the batteries here above listed, is compliant with the requirements of CEI-0-16: 2019-04*

**DATA 06/08/2021**

**DATE 06/08/2021**

**FIRMA LEGALE RAPPRESENTANTE  
SIGNATURE LEGAL REPRESENTATIVE**

Wang Jianpeng



王健鹏





Product Service

# Compliance Document

No. D 102650 0025 Rev. 00

**Holder of Certificate:** **Shanghai Sermatec Energy Technology Co.,Ltd.**  
Room 601-602, Block A, No.399, ZhongRen Road  
JiaDing District  
201802 Shanghai  
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter**  
**(Converter with storage battery system)**

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290203074901

**Date,** 2021-08-05

( Billy Qiu )

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT

# Compliance Document

No. D 102650 0025 Rev. 00

**Model(s):** Converter models: SMT-60AD, SMT-60DC  
 Battery models: H48074, H32148

## Parameters:

Model:	SMT-60AD
Battery input / output terminal parameters:	
Battery type	Li-ion (LFP)
Maximum voltage [Vd.c.]	1000
Rated voltage [Vd.c.]	800
Battery voltage range [Vd.c.]	680 - 1000
Maximum charging / discharging power [kW]	68
Maximum charging / discharging current [Ad.c.]	88
AC input parameters:	
Maximum input apparent power [kVA]	60
Maximum input active power [kW]	60
Rated input voltage [Va.c.]	230/400, 3P+N+PE
Maximum continuous input current [Aa.c.]	86
Rated input frequency [Hz]	50
AC output parameters:	
Rated output voltage [Va.c.]	230/400, 3P+N+PE
Rated output frequency [Hz]	50
Maximum continuous output current [Aa.c.]	86
Maximum continuous output active power [kW]	60
Maximum continuous output apparent power [kVA]	60
Power factor	0.8 un - 0.8 ov

Model:	SMT-60DC
Battery input/output terminal parameters:	
Battery type	Li-ion (LFP)
Maximum voltage [Vd.c.]	900
Rated voltage [Vd.c.]	550
Battery voltage range [Vd.c.]	200 - 900
Maximum charging / discharging power [kW]	60
Maximum charging / discharging current [Ad.c.]	200
DC input/output terminal parameters (HV):	
Maximum voltage [Vd.c.]	1000
Rated voltage [Vd.c.]	800
Voltage range [Vd.c.]	350 - 1000
Maximum continuous current [Ad.c.]	100
Maximum continuous power [kW]	60

# Compliance Document

No. D 102650 0025 Rev. 00

Battery model	H48074									
Manufacturer	Pylon Technologies Co.,Ltd.									
Battery Type	Li-ion (LFP)									
Rated voltage	48 Vd.c.									
BMS model	SC1000-100S									
Capacity of battery[kWh]	17.76 (with 5x battery units in series)	21.31 (with 6x battery units in series)	24.86 (with 7x battery units in series)	28.41 (with 8x battery units in series)	31.96 (with 9x battery units in series)	35.52 (with 10x battery units in series)	39.07 (with 11x battery units in series)	42.62 (with 12x battery units in series)		
Firmware version of the BMS	PowerCube_CMU_A_V5.1									

Battery model	H32148										
Manufacturer	Pylon Technologies Co.,Ltd.										
Battery Type	Li-ion (LFP)										
Rated voltage	32 Vd.c.										
BMS model	SC1000-200E										
Capacity of battery[kWh]	33.15 (with 7x battery units in series)	37.88 (with 8x battery units in series)	42.62 (with 9x battery units in series)	47.36 (with 10x battery units in series)	52.09 (with 11x battery units in series)	56.83 (with 12x battery units in series)	61.56 (with 13x battery units in series)	66.30 (with 14x battery units in series)	71.04 (with 15x battery units in series)	75.77 (with 16x battery units in series)	
Firmware version of the BMS	PowerCube_CMU_B_V5.2										

Battery model	H32148											
Manufacturer	Pylon Technologies Co.,Ltd.											
Battery Type	Li-ion (LFP)											
Rated voltage	32 Vd.c.											
BMS model	SC1000-200E											
Capacity of battery[kWh]	80.51 (with 17x battery units in series)	85.24 (with 18x battery units in series)	89.98 (with 19x battery units in series)	94.72 (with 20x battery units in series)	99.45 (with 21x battery units in series)	104.19 (with 22x battery units in series)	108.92 (with 23x battery units in series)	113.66 (with 24x battery units in series)	118.40 (with 25x battery units in series)	123.13 (with 26x battery units in series)	127.87 (with 27x battery units in series)	
Firmware version of the BMS	PowerCube_CMU_B_V5.2											

# Compliance Document

No. D 102650 0025 Rev. 00

TYPE OF APPARATUS:

DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR STATIC CONVERSION	ROTATING GENERATOR DEVICE
		X	

**Manufacturer:** Mianyang Zenith New Energy Technology Co.,LTD

**Apparatus type:** Converter with storage battery system

**Model:** See page 2

**Firmware version:** SMT-60AD: V417D20A03, SMT-60DC: V519A02

**Number of phase:** 3

**Nominal power:** See above tables

Remark: The devices are capable to limit  $I_{dc}$  to 0.5% of the rated grid current

Having assessed the test report:

64.290.20.30749.01 dated 30.07.2021

Issued by laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch  
5F, Communication Bldg., 163 Pingyun Road, Huangpu West Ave, Guangzhou city 510656,  
P.R.China

Laboratory Accredited by DAkkS

In compliance with ISO/IEC 17025:2005

Accreditation number: D-PL-19065-01-00

Having examined the ISO 9001 certificate of production facility, number

NO: 11421Q44724R1M

Issued by:

EACC Certification Body (Management system CNAS C114-M)

**Tested  
according to:**

CEI 0-16:2019/V1:2020