



Compliance Document

No. D 102650 0023 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

Test report no.: 64290203074001

Date, 2021-05-11

(Billy Qiu)

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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

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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)	
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]	66.30 (with 14x battery units in series)	71.04 (with 15x battery units in series)	75.77 (with 16x battery units in series)	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)	
Firmware version of the BMS	PowerCube_CMU_B_V5.2							

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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]	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						

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 Idc to 0.5% of the rated grid current

Having assessed the test report:

64.290.20.30740.01 dated 08.05.2021

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: 11418Q44022R0M

Issued by:

CEPREI Certification Body (Management system CNAS C114-M)

**Tested
according to:**

CEI 0-21:2019