

Compliance Document

No. D 118484 0015 Rev. 00

Holder of Certificate: **Zonergy (Shenzhen) Company Limited**
1st Floor, Mobi Antenna Building Langshan First Road
Songpingshan Community, Xili Town
Nanshan District
518000 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

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

Model(s): **Converter models:**
Venus 4000-S1, Venus 4000-S2, Venus 4600-S1,
Venus 5000-S1, Venus 6000-S1
Battery models:
Limestone 5H-P, Limestone 10H-P, Limestone 15H-P,
Limestone 20H-P, Limestone 25H-P, Limestone 30H-P
Storage System models:
Panda 4000S-5HP, Panda 4600S-5HP,
Panda 5000S-5HP, Panda 6000S-5HP;
Panda 4000S-10HP, Panda 4600S-10HP
Panda 5000S-10HP, Panda 6000S-10HP;
Panda 4000S-15HP, Panda 4600S-15HP,
Panda 5000S-15HP, Panda 6000S-15HP;
Panda 4000S-20HP, Panda 4600S-20HP,
Panda 5000S-20HP, Panda 6000S-20HP;
Panda 4000S-25HP, Panda 4600S-25HP,
Panda 5000S-25HP, Panda 6000S-25HP;
Panda 4000S-30HP, Panda 4600S-30HP,
Panda 5000S-30HP, Panda 6000S-30HP

Parameters: See page 2

Tested according to: CEI 0-21:2022

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.: 64290223096001

Date, 2023-03-16



(Billy Qiu)

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Parameters:

Model	Venus 4000-S1	Venus 4600-S1	Venus 5000-S1	Venus 6000-S1	Venus 4000-S2
PV input rating					
Max. input power	9000 W	9000 W	9000 W	9000 W	4500 W
Nominal input voltage	360 Vd.c.	360 Vd.c.	360 Vd.c.	360 Vd.c.	360 Vd.c.
Max. input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.
MPPT voltage range (full load)	250-520 Vd.c.	250-520 Vd.c.	250-520 Vd.c.	250-520 Vd.c.	250-520 Vd.c.
Max. input current	2*16 Ad.c.	2*16 Ad.c.	2*16 Ad.c.	2*16 Ad.c.	16 Ad.c.
PV short circuit current	2*20 Ad.c.	2*20 Ad.c.	2*20 Ad.c.	2*20 Ad.c.	20 Ad.c.
Grid input rating					
Nominal input voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Nominal grid frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Nominal input power	4000 W	4600 W	5000 W	6000 W	4000 W
Nominal input current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.	17.4 Aa.c.
Max. input apparent power	8000 VA	9200 VA	10000 VA	11000 VA	8000 VA
Max. input current	34.8 Aa.c.	40 Aa.c.	43.5 Aa.c.	47.8 Aa.c.	34.8 Aa.c.
Grid output rating					
Nominal output apparent power	4000 W	4600 W	4999 W	6000 W	4000 W
Nominal output voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Nominal output current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.	17.4 Aa.c.
Max. output current	17.4 Aa.c.	20 Aa.c.	21.7 Aa.c.	26 Aa.c.	17.4 Aa.c.
Nominal output frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Power factor	0.8 inductive to 0.8 capactive	0.8 inductive to 0.8 capactive	0.8 inductive to 0.8 capactive	0.8 inductive to 0.8 capactive	0.8 inductive to 0.8 capactive

Battery model parameters see below pages:6

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The following generators meet the requirements of CEI 0-21:2022						
Section A	Manufacturer	Zonergy Corporation No. 68 Fucang Road, Yantan district, Zigong City, Sichuan Province, China				
	Equipment type	Energy Storage Inverter with storage battery system				
	Brand	Zonergy				
	Number of phase	<input checked="" type="checkbox"/> Single phase <input type="checkbox"/> Three phase Frequency: 50Hz Voltage: 230Va.c.				
	Primary energy used	<input checked="" type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:				
	Generator model	Venus 4000-S1	Venus 4600-S1	Venus 5000-S1	Venus 6000-S1	Venus 4000-S2
	Rated active power output to Grid	4000 W	4600 W	5000 W	6000 W	4000 W
	Maximum apparent power output to Grid	4000 VA	4600 VA	5000 VA	6000 VA	4000 VA
	The generator:	<input type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency				

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Section B	Characteristics of the interface protection system					
	Manufacturer	Zonergy Corporation				
	Model	Venus 4000-S1, Venus 4000-S2, Venus 4600-S1, Venus 5000-S1, Venus 6000-S1 Panda 4000S-5HP, Panda 4600S-5HP, Panda 5000S-5HP, Panda 6000S-5HP Panda 4000S-10HP, Panda 4600S-10HP Panda 5000S-10HP, Panda 6000S-10HP Panda 4000S-15HP, Panda 4600S-15HP, Panda 5000S-15HP, Panda 6000S-15HP Panda 4000S-20HP, Panda 4600S-20HP, Panda 5000S-20HP, Panda 6000S-20HP Panda 4000S-25HP, Panda 4600S-25HP, Panda 5000S-25HP, Panda 6000S-25HP Panda 4000S-30HP, Panda 4600S-30HP, Panda 5000S-30HP, Panda 6000S-30HP				
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated				
Section C	Characteristics of inverter(s)					
	Model of inverter	Venus 4000-S1	Venus 4600-S1	Venus 5000-S1	Venus 6000-S1	Venus 4000-S2
	Manufacturer of inverter	Zonergy Corporation				
	Firmware version	V1.0				
	Rated power of inverter (PNINV)	4000 W	4600 W	5000 W	6000 W	4000 W

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Characteristics of the Storage System (SdA)							
Inverter							
Storage System manufacturer	Zonergy Corporation						
Storage System model	Panda 4000S-5HP	Panda 4000S-10HP	Panda 4000S-15HP	Panda 4000S-20HP	Panda 4000S-25HP	Panda 4000S-30HP	
Inverter model in the storage system	Venus 4000-S1 or Venus 4000-S2	Venus 4000-S1 or Venus 4000-S2	Venus 4000-S1 or Venus 4000-S2	Venus 4000-S1 or Venus 4000-S2	Venus 4000-S1 or Venus 4000-S2	Venus 4000-S1 or Venus 4000-S2	
Battery model in the storage system	Limestone 5H-P	Limestone 10H-P	Limestone 15H-P	Limestone 20H-P	Limestone 25H-P	Limestone 30H-P	
Nominal discharge power P_{SN} [W]	2350	4000	4000	4000	4000	4000	
Nominal charge power P_{CN} [W]	2750	4000	4000	4000	4000	4000	
Maximum discharge power P_{SMAX} [W]	2350	4000	4000	4000	4000	4000	
Section E	Storage System model	Panda 4600S-5HP	Panda 4600S-10HP	Panda 4600S-15HP	Panda 4600S-20HP	Panda 4600S-25HP	Panda 4600S-30HP
	Inverter model in the storage system	Venus 4600-S1	Venus 4600-S1	Venus 4600-S1	Venus 4600-S1	Venus 4600-S1	Venus 4600-S1
	Battery model in the storage system	Limestone 5H-P	Limestone 10H-P	Limestone 15H-P	Limestone 20H-P	Limestone 25H-P	Limestone 30H-P
	Nominal discharge power P_{SN} [W]	2500	4600	4600	4600	4600	4600
	Nominal charge power P_{CN} [W]	2500	4600	4600	4600	4600	4600
	Maximum discharge power P_{SMAX} [W]	2500	4600	4600	4600	4600	4600

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Maximum charge power P_{CMAX} [W]	2500	4600	4600	4600	4600	4600
Storage System model	Panda 5000S-5HP	Panda 5000S-10HP	Panda 5000S-15HP	Panda 5000S-20HP	Panda 5000S-25HP	Panda 5000S-30HP
Inverter model in the storage system	Venus 5000-S1	Venus 5000-S1	Venus 5000-S1	Venus 5000-S1	Venus 5000-S1	Venus 5000-S1
Battery model in the storage system	Limestone 5H-P	Limestone 10H-P	Limestone 15H-P	Limestone 20H-P	Limestone 25H-P	Limestone 30H-P
Nominal discharge power P_{SN} [W]	2500	4999	4999	4999	4999	4999
Nominal charge power P_{CN} [W]	2500	4999	4999	4999	4999	4999
Maximum discharge power P_{SMAX} [W]	2500	4999	4999	4999	4999	4999
Maximum charge power P_{CMAX} [W]	2500	4999	4999	4999	4999	4999
Storage System model	Panda 6000S-5HP	Panda 6000S-10HP	Panda 6000S-15HP	Panda 6000S-20HP	Panda 6000S-25HP	Panda 6000S-30HP
Inverter model in the storage system	Venus 6000-S1	Venus 6000-S1	Venus 6000-S1	Venus 6000-S1	Venus 6000-S1	Venus 6000-S1
Battery model in the storage system	Limestone 5H-P	Limestone 10H-P	Limestone 15H-P	Limestone 20H-P	Limestone 25H-P	Limestone 30H-P
Nominal discharge power P_{SN} [W]	2350	5000	5000	5000	5000	4600
Nominal charge power P_{CN} [W]	2750	5000	5000	5000	5000	5500
Maximum discharge power P_{SMAX} [W]	2350	5000	5000	5000	5000	4600

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Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional					
Batteries that can be used with the above static converters						
Brand	Zonergy					
Technology	Lithium-ion					
Models	Limestone e 5H-P	Limestone e 10H-P	Limestone e 15H-P	Limestone e 20H-P	Limestone e 25H-P	Limestone e 30H-P
CUS module (kWh)	5.12	10.24	15.35	20.48	25.64	30.72
BMS firmware version	V1.0					
Number of modules	1 piece	2 pieces	3 pieces	4 pieces	5 pieces	6 pieces
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with Pylon instruction.					



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Section I	References of the laboratories that performed the tests and their test reports (RdP)	
	Selected method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex A, Annex Bbis: 64.290.22.30960.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-01
	Accreditation body ref.	DAkkS
Section M	Reference of the certification body	
	Certification Body	TÜV SÜD Product Service GmbH DAkkS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013