



Product Service

Compliance Document

No. D 122411 0015 Rev. 00

Holder of Certificate: **Shenzhen Eternalplanet Energy Pingshan Ltd.**

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518118 Shenzhen, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
(Battery energy storage system)**

Model(s): EP Cube HES-EU1-706G, EP Cube HES-EU1-706W
EP Cube HES-EU1-710G, EP Cube HES-EU1-710W
EP Cube HES-EU1-713G, EP Cube HES-EU1-713W
EP Cube HES-EU1-716G, EP Cube HES-EU1-716W
EP Cube HES-EU1-720G, EP Cube HES-EU1-720W

Parameters: See page 2

Tested according to: CEI 0-21:2022
CEI 0-21:2022/V1:2022

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.: 64290223107401

Date, 2023-11-21

(Billy Qiu)

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Parameters:

Model	EP Cube HES-EU1-706G, EP Cube HES-EU1-706W	EP Cube HES-EU1-710G, EP Cube HES-EU1-710W	EP Cube HES-EU1-713G, EP Cube HES-EU1-713W	EP Cube HES-EU1-716G, EP Cube HES-EU1-716W	EP Cube HES-EU1-720G, EP Cube HES-EU1-720W
PV input rating					
Maximum input power	10000 W				
Nominal input voltage	360 Vd.c.				
Maximum input voltage	600 Vd.c.				
MPPT voltage range	90-550 Vd.c.				
MPPT voltage range (full load)	312.5 ~ 450 Vd.c.				
MPPT start-up voltage	120 Vd.c.				
Maximum input current	2*16 Ad.c.				
PV short circuit current	2*20 Ad.c.				
Battery input/output rating					
Battery type	Lithium-iron battery (LiFePO4)				
Nominal voltage	76.8 Vd.c.	115.2 Vd.c.	153.6 Vd.c.	192 Vd.c.	230.4 Vd.c.
Battery voltage range	64.8 Vd.c.~ 87.6 Vd.c.	97.2 Vd.c.~ 131.4 Vd.c.	129.6 Vd.c.~ 175.2 Vd.c.	162 Vd.c.~ 219 Vd.c.	194.4 Vd.c.~ 262.8 Vd.c.
Maximum charging/discharging power	3000 W	5000 W	6500 W	7600 W	7600 W
Maximum charging/discharging current	55/55 Ad.c.				
Grid input/output rating					
Rated grid voltage	230 Va.c. L+N+PE				
Rated grid frequency	50 Hz				
Rated input/output active power (P _{NINV})	6000 W				
Maximum input/output apparent power	6000 VA				
Maximum input power from Grid to Battery	6000 W				
Maximum input/output continuous current	26.1 Aa.c.				
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

Battery model parameters see below page: 4

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The following generators meet the requirements of CEI 0-21:2022						
Section A	Manufacturer	Eternalplanet Energy Co.,Ltd. 27th Floor, Building 3A, Longgang Intelligent Park, 518116 Shenzhen, PEOPLE'S REPUBLIC OF CHINA				
	Equipment type	Battery energy storage system				
	Brand	Eternalplanet Energy Co.,Ltd.				
	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	EP Cube HES-EU1-706G, EP Cube HES-EU1-706W	EP Cube HES-EU1-710G, EP Cube HES-EU1-710W	EP Cube HES-EU1-713G, EP Cube HES-EU1-713W	EP Cube HES-EU1-716G, EP Cube HES-EU1-716W	EP Cube HES-EU1-720G, EP Cube HES-EU1-720W
	Rated active power output to Grid	6000 W				
	Maximum apparent power output to Grid	6000 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 I _{dc} 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				
Section B	Characteristics of the interface protection system					
	Manufacturer	Eternalplanet Energy Co.,Ltd.				
	Model	EP Cube HES-EU1-706G, EP Cube HES-EU1-706W, EP Cube HES-EU1-710G, EP Cube HES-EU1-710W, EP Cube HES-EU1-713G, EP Cube HES-EU1-713W, EP Cube HES-EU1-716G, EP Cube HES-EU1-716W, EP Cube HES-EU1-720G, EP Cube HES-EU1-720W				
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated				
Section C	Characteristics of inverter(s)					
	Model of inverter	EP Cube HES-EU1-7G		EP Cube HES-EU1-7W		
	Manufacturer of inverter	Eternalplanet Energy Co.,Ltd.				
	Firmware version	V1.78				
	Rated power of inverter (P _{NINV})	6000 W		6000 W		

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Section E	Characteristics of the Storage System (SdA)					
	Storage system manufacturer	Eternalplanet Energy Co.,Ltd.				
	Storage system model	EP Cube HES-EU1-706G	EP Cube HES-EU1-710G	EP Cube HES-EU1-713G	EP Cube HES-EU1-716G	EP Cube HES-EU1-720G
	Inverter model	EP Cube HES-EU1-7G				
	Battery model	2* EP Cube B1-3G	3* EP Cube B1-3G	4* EP Cube B1-3G	5* EP Cube B1-3G	6* EP Cube B1-3G
	Nominal discharge power $P_{SN}(W)$	3000	5000	6000	6000	6000
	Nominal charge power $P_{CN}(W)$	-3000	-5000	-6000	-6000	-6000
	Maximum discharge power $P_{SMAX}(W)$	3000	5000	6000	6000	6000
	Maximum charge power $P_{CMAX}(W)$	-3000	-5000	-6000	-6000	-6000
	Storage system model	EP Cube HES-EU1-706W	EP Cube HES-EU1-710W	EP Cube HES-EU1-713W	EP Cube HES-EU1-716W	EP Cube HES-EU1-720W
	Inverter model	EP Cube HES-EU1-7W				
	Battery model	2* EP Cube B1-3W	3* EP Cube B1-3W	4* EP Cube B1-3W	5* EP Cube B1-3W	6* EP Cube B1-3W
	Nominal discharge power $P_{SN}(W)$	3000	5000	6000	6000	6000
	Nominal charge power $P_{CN}(W)$	-3000	-5000	-6000	-6000	-6000
	Maximum discharge power $P_{SMAX}(W)$	3000	5000	6000	6000	6000
	Maximum charge power $P_{CMAX}(W)$	-3000	-5000	-6000	-6000	-6000
	Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional				
	Batteries that can be used with the above static converters					
	Brand	Eternalplanet Energy Co.,Ltd.				
	Technology	Lithium-iron battery (LiFePO4)				
	Models	EP Cube B1-3G			EP Cube B1-3W	
	CUS module (kWh)	3.2 (with 1*battery module)			3.2 (with 1*battery module)	
	BMS firmware version	V1.61				
	Number of modules	2-6 pieces			2-6 pieces	
	Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with manufacturer's 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: 64.290.22.31074.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	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