

Certificate of compliance

Applicant: BSL NEW ENERGY TECHNOLOGY CO., LTD
8F, Building D-2-3, 1F, Building D-2-3, 8F, Building D-2-2, No. 6, Xingyuan North Road, Starting
AreaChina-Korea Huizhou Industrial Park, Zhongkai District, Huizhou City, Guangdong
P.R. China

Product: Uninterruptible power systems (UPS)

Models: ESS-BATT 241C
ESS-BATT 225C
ESS-BATT 208C
ESS-BATT 192C
ESS-BATT 176C
ESS-BATT 160C

The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

Applied rules and standards:

IEC 62040-1:2017+A1:2021; EN 62040-1:2019+A11:2021; DIN EN IEC 62040-1/A11:2021-08
Uninterruptible power systems (UPS) - Part 1: Safety requirements

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: CNDQ-ESH-P24101560
Certificate number: U25-0236

Certification Program:
Date of issue:

NSOP-0038-DEU-ZE-V02
2025-03-14

Certification body

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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Type Approval and declaration of compliance with the requirements of IEC 62040-1:2017+AMD1:2021+AMD2:2022 CSV				
Manufacturer / applicant	BSL NEW ENERGY TECHNOLOGY CO., LTD 8F, Building D-2-3,1F, Building D-2-3, 8F, Building D-2-2, No. 6, Xingyuan North Road, Starting AreaChina-Korea Huizhou Industrial Park, Zhongkai District, Huizhou City, Guangdong P.R. China			
Product type	Uninterruptible power systems (UPS)			
Static converter model	ESS-BATT 241C	ESS-BATT 225C	ESS-BATT 208C	ESS-BATT 192C
Input (DC battery)				
Battery Type	Li-ion	Li-ion	Li-ion	Li-ion
Battery Voltage Range (V)	672-852	627.2-795.2	582.4-738.4	537.6-681.6
Battery Rated Voltage (V)	768	716.8	665.6	614.4
Rated Capacity (Ah)	314	314	314	314
Rated Energy (Kwh)	241	225	208	192
Rated Charging/Discharging Current (A)	157/157	157/157	157/157	157/157
Max. Charging/Discharging Current (A)	250/250	250/250	250/250	250/250
Charging Temperature Range (°C)	0~55	0~55	0~55	0~55
Discharging Temperature Range (°C)	-20~55	-20~55	-20~55	-20~55
Protection Degree	Class I	Class I	Class I	Class I
For Cooling System Input	220-240V~, 50/60Hz, 12A	220-240V~, 50/60Hz, 12A	220-240V~, 50/60Hz, 12A	220-240V~, 50/60Hz, 12A
Static converter model	ESS-BATT 176C	ESS-BATT 160C	--	--
Input (DC battery)				
Battery Type	Li-ion	Li-ion	--	--
Battery Voltage Range (V)	492.8-624.8	448-568	--	--
Battery Rated Voltage (V)	563.2	512	--	--
Rated Capacity (Ah)	314	314	--	--
Rated Energy (Kwh)	176	160	--	--
Rated Charging/Discharging Current (A)	157/157	157/157	--	--
Max. Charging/Discharging Current (A)	250/250	250/250	--	--
Charging Temperature Range (°C)	0~55	0~55	--	--
Discharging Temperature Range (°C)	-20~55	-20~55	--	--
Protection Degree	Class I	Class I	--	--
For Cooling System Input	220-240V~, 50/60Hz, 12A	220-240V~, 50/60Hz, 12A	--	--
Firmware version	V1.0			

Description of the structure of the power generation unit:

The power generation unit is equipped with a DC and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.