



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/23/SH/00366

Contract Number: 801898

Certificate Project Number: SH-CERT230905366

Certified Product: High Voltage Hybrid ESS

Trademarks:



Model(s):

BOS-GX-S60-CY-US (X=20,25,30,35,40,45,50,55,60, which means the capacity of each battery cluster, and unit is kWh; Y=1,2,3,4,5...,14,15,16, which means the number of battery clusters),
BOS-GX-S30-CY-US (X=20,25,30,35,40, which means the capacity of each battery cluster, and unit is kWh; Y=1,2,3,4,5...,14,15,16, which means the number of battery clusters)

Technical Data: See page 2-5

Certificate Holder: NINGBO DEYE ESS TECHNOLOGY CO., LTD
No.18, Zhenlong 2 Road, Binhai Economic Development Zone, Cixi, Ningbo, Zhejiang, China

This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:

ANSI/CAN/UL 9540, 2nd Ed. Rev. April 9, 2021

Authorized by:

Effective date: 11 December 2023



Mark Lohmann
Certifier



Certification Body

Connectivity & Products, a division of SGS North America Inc.
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Additional Information:

Technical Data:

Since there are a variety of battery cluster models of BOS-GX-S60-CY-US series and BOS-GX-S30-CY-US series, and the maximum number of battery clusters that can be matched is 16 (in parallel). It is simply connected in parallel to increase the system capacity, the models and ratings of battery cluster and PCS have not changed, so the ratings of PCS and different models of battery clusters are written in the report.

For BOS-GX-S60-CY-US type series

PCS part:

AC Connection

AC Input/Output Voltage: 3L/N/PE 277/480Va.c.
 AC Input/Output Frequency: 60Hz
 AC Input/Output Rated Current: 72.3Aa.c.
 Max. AC Input/Output Current: 72.3Aa.c.
 AC Input/Output Rated Power: 60000W
 Max. Active Input/ Output Power: 60000W
 Max. Continuous AC Passthrough current: 200Aa.c.

Battery Connection

Battery Voltage Range: 160~800 Vd.c

PV Connection

Max. PV Input Voltage: 1000Vd.c
 MPPT Input Range: 150Vd.c.-850Vd.c.
 Max. PV Input Current: 36Ad.c.+36Ad.c.+36Ad.c.+36Ad.c.
 Max. PV Input Power: 78000W

Battery Part

BOS-GX(X=20,25,30,35,40,45,50,55,60)

General ratings:

Nominal Charge/Discharge Current: 100Ad.c.

Charge Temperature: 0°C~55°C

Discharge Temperature: -20°C~55°C

IP Rating of Enclosure: IP20

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Additional Information:

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For BOS-GX-S60-CY-US type series

Other ratings:

Model of Battery cluster	Rated voltage	Rated Capacity
BOS-G20	204.8Vdc	20.48kWh
BOS-G25	256.0Vdc	25.60kWh
BOS-G30	307.2Vdc	30.72kWh
BOS-G35	358.4Vdc	35.84kWh
BOS-G40	409.6Vdc	40.96kWh
BOS-G45	460.8Vdc	46.08kWh
BOS-G50	512.0Vdc	51.20kWh
BOS-G55	563.2Vdc	56.32kWh
BOS-G60	614.4Vdc	61.44kWh

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For BOS-GX-S30-CY-US type series

PCS part:

AC Connection

AC Input/Output Voltage: 3L/N/PE 120/208Va.c.
 AC Input/Output Frequency: 60Hz
 AC Input/Output Rated Current: 83.4Aa.c.
 Max. AC Input/Output Current: 83.4Aa.c.
 AC Input/Output Rated Power: 30000W
 Max. Active Input/ Output Power: 30000W
 Max. Continuous AC Passthrough current: 200Aa.c.

Battery Connection

Battery Voltage Range: 160~500Vd.c.

PV Connection

Max. PV Input Voltage: 550Vd.c.
 MPPT Input Range: 150Vd.c.-500Vd.c.
 Max. PV Input Current: 36Ad.c.+36Ad.c.+36Ad.c.+36Ad.c.
 Max. PV Input Power: 39000W

Battery Part

BOS-GX(X=20,25,30,35,40)

General ratings:

Nominal Charge/Discharge Current: 100Ad.c.

Charge Temperature: 0°C~55°C

Discharge Temperature: -20°C~55°C

IP Rating of Enclosure: IP20

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Additional Information:

Technical Data:

For BOS-GX-S30-CY-US type series

Other ratings:

Model of Battery cluster	Rated voltage	Rated Capacity
BOS-G20	204.8Vdc	20.48kWh
BOS-G25	256.0Vdc	25.60kWh
BOS-G30	307.2Vdc	30.72kWh
BOS-G35	358.4Vdc	35.84kWh
BOS-G40	409.6Vdc	40.96kWh

Other Ratings: Energy storage system protection rating: IP20 (limited by battery system)

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