

Certificate Number: AZ 69025981

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CERTIFICATE OF SUITABILITY

Authorised marking: TUV025981E

This is to certify that TÜV Rheinland Australia Pty Ltd as accredited by JAS-ANZ in accordance with ISO/IEC 17065 has examined for compliance with certification standards, the electrical equipment described hereunder and authorises the certificate holder to affix the above mentioned mark to products of the same type; or the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled

CERTIFICATE HOLDER:

NingBo Deye Inverter Technology
Co., Ltd.
No. 26 South YongJiang Road, Daqi,
Beilun NingBo,
315800 Zhejiang
P.R. China

DESCRIPTION OF EQUIPMENT

Declared class: Non-declared
Product: Hybrid Inverter
Trade Name / Manufacturer: DEYE
Model Number: SUN-3K-SG04LP1-AU , SUN-3K-SG04LP1-24-AU ,
SUN-3.6K-SG04LP1-AU , SUN-5K-SG04LP1-AU ,
SUN-6K-SG04LP1-AU ,
Ratings: Ratings refer to CONTINUATION SHEET 1-2 for details
Standard: AS/NZS 4777.2:2020+A1
IEC 62109-1:2010
IEC 62109-2:2011
Issue Date: 26/04/2022
Expiry Date: 26/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

A handwritten signature in blue ink, appearing to read 'Grant Li', positioned above a horizontal line.

Grant Li



Acc. No. Z2870404AA
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CONTINUATION SHEET 1

DESCRIPTION OF EQUIPMENT

Ratings:

For model SUN-3K-SG04LP1-AU; SUN-3K-SG04LP1-24-AU;
SUN-3.6K-SG04LP1-AU; SUN-5K-SG04LP1-AU; SUN-6K-SG04LP1-AU:

Class I, IP65, PD 2 Internal; PD 3 External
Operating Temp.: -45°C to 60°C (>45°C derating)
Overvoltage Category (OVC): Battery and PV sides: II;
Grid side: III

PV input:

V_{max}: 500Vdc

VMPP: 150 - 425Vdc

I_{sc}: 17A; 17A; 17+17A; 17+17A; 17+17A

I_{max}: 13A; 13A; 13+13A; 13+13A; 13+13A

Battery input:

Type: Lead-acid or Li-ion

Voltage range: 40-60Vdc; 20-30Vdc; 40-60Vdc; 40-60Vdc;
40-60Vdc

Max charging current: 70A; 140A; 90A; 120A; 135A

Max discharging current: 70A; 140A; 90A; 120A; 135A

Issue Date: 26/04/2022

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CONTINUATION SHEET 2

DESCRIPTION OF EQUIPMENT

Ratings:

AC output:

Rated Output voltage: L/N/PE,230/240

Rated frequency: 50Hz,

Max / Rated Output Apparent power: 3kVA; 3kVA; 3.6kVA; 5kVA;
6kVA

Max / rated Output Power: 3kW; 3kW; 3.6kW; 5kW; 6kW

Max / Rated Output current: 13A; 13A; 15.7A; 21.7A; 26.1A

Power factor: 0.8 leading to 0.8 lagging

Stand Alone mode:

Rated Output voltage: L/N/PE,230/240

Rated frequency: 50Hz,

Max / Rated Output Apparent power: 3kVA; 3kVA; 3.6kVA; 5kVA;
6kVA

Max / Rated Output current: 13A; 13A; 15.7A; 21.7A; 26.1A

Issue Date: 26/04/2022

Expiry Date: 26/04/2027

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CONTINUATION SHEET 3

(Modification 1)

Changing the operating ambient temperature range from
-45°C to 60°C (>45°C derating) to
-40°C to 60°C (>45°C derating).

Issue Date: 25/05/2022

Expiry Date: 26/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜV Rheinland

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CONTINUATION SHEET 4

(Modification 2)

Change the ratings of PV Input Short-Circuit Current I_{sc}
SUN-3K-SG04LP1-AU;SUN-3K-SG04LP1-24-AU;SUN-3.6K-SG04LP1-AU;
SUN-5K-SG04LP1-AU;SUN-6K-SG04LP1-AU from:
17A; 17A; 17+17A; 17+17A; 17+17A to
19.5A; 19.5A; 19.5+19.5A; 19.5+19.5A; 19.5+19.5A.

Issue Date: 29/09/2022

Expiry Date: 26/04/2027

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CONTINUATION SHEET 5

(Modification 3)

Description of change:

1. For originally certified models of SUN-3K-SG04LP1-24-AU, SUN-3K-SG04LP1-AU, SUN-3.6K-SG04LP1-AU, SUN-5K-SG04LP1-AU, SUN-6K-SG04LP1-AU

- a. Add the EMI PCB board.
- b. Update the firmware version from 4369 to 4384.
- c. Update the weight from 14kg to 17kg.
- d. Add a fan outside the enclosure for model of SUN-6K-SG04LP1-AU.
- e. Add a alternative appearance which has no difference except the cover plate.

2. Add new models of SUN-3K-SG04LP1-24-AU-SM1, SUN-3K-SG04LP1-AU-SM1, SUN-3.6K-SG04LP1-AU-SM2, SUN-5K-SG04LP1-AU-SM2, SUN-6K-SG04LP1-AU-SM2.

- a. Add an arc-fault detection PCB board.
- b. The new models increase short current and max current from 17/13A, 17+17/13+13A to 27/18A, 27+27/18+18A.
- c. The new models change the dimension [W*H*D (mm)] from 330*433*238 to 376*470*241.5.

Issue Date: 26/06/2024

Expiry Date: 26/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

A handwritten signature in blue ink, appearing to read "Daniel Ngo".

Daniel Ngo



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CONTINUATION SHEET 6

(Modification 3)

Description of change:

d. The new models increase the weight.

e. The new models have no fans.

Ratings of added models:

SUN-3K-SG04LP1-24-AU-SM1, SUN-3K-SG04LP1-AU-SM1,
SUN-3.6K-SG04LP1-AU-SM2, SUN-5K-SG04LP1-AU-SM2,
SUN-6K-SG04LP1-AU-SM2.

Protection: Class I, IP65, PD 2 Internal; PD 3 External

Operating Temp.: -45°C to 60°C (>45°C derating)

Overvoltage Category (OVC): Battery and PV sides: II;

Grid side: III

PV input:

Vmax: 500Vdc

VMPP : 150 - 425Vdc

Isc: 27; 27; 27+27; 27+27; 27+27A

Imax: 18; 18; 18+18; 18+18; 18+18A

Issue Date: 26/06/2024

Expiry Date: 26/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 7

(Modification 3)

Description of change:

Battery input:

Type: Lead-acid or Li-ion

Vmax: 30; 60; 60; 60; 60Vdc

Voltage range: 20-30; 40-60; 40-60; 40-60; 40-60Vdc

Max charging current: 140; 70; 90; 120; 135A

Max discharging current: 140; 70; 90; 120; 135A

AC output (grid):

Rated Output voltage: L/N/PE, 230/240V

Rated frequency: 50Hz,

Max / Rated Output Apparent power : 3; 3; 3.6; 5; 6kVA

Max / rated Output Power: 3; 3; 3.6; 5; 6kW

Max / Rated Output current: 13.1; 13.1; 15.7; 21.8; 26.1A

Power factor: 0.8 leading to 0.8 lagging

AC output (stand-alone):

Rated Output voltage: L/N/PE, 230/240V

Rated frequency: 50Hz,

Max / Rated Output Apparent power: 3; 3; 3.6; 5; 6kVA

Max / Rated Output current: 13.1; 13.1; 15.7; 21.8; 26.1A

Issue Date: 26/06/2024

Expiry Date: 26/04/2027

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Daniel Ngo



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