

Certificate Number: AZ 69026134

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CERTIFICATE OF SUITABILITY

Authorised marking: TUV-026134-E

TÜV Rheinland Australia Pty Ltd "Electrical Product Safety Certification (EPSC) Scheme", accredited by JAS-ANZ in accordance with ISO/IEC 17065, has issued this certificate under JAS-ANZ accreditation. The electrical equipment described hereunder has been evaluated and found to be electrically safe at the time of certification and met the minimum safety requirements contained in Australian Standard AS/NZS 3820 as of current. It is a requirement that all equipment supplied under this certificate shall be identical to the equipment as certified. The certificate holder may affix the above mentioned authorised marking on the product.

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-7.6K-SG05LP1-AU , SUN-8K-SG05LP1-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:	06/06/2022
Expiry Date:	06/06/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Grant Li



Acc. No. Z2870404AA
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CERTIFICATE OF SUITABILITY

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CONTINUATION SHEET 1

DESCRIPTION OF EQUIPMENT

Ratings:

For all models:

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

Operating Temp.: -40°C to 60°C (>45°C derating)

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

PV input:

Vmax: 500Vdc

VMPP : 150 - 425Vdc

MPPT Full Power Voltage Range: 200 – 425Vdc

Isc: 34+34A

Imax: 26+26A

Battery input:

Type: Lead-acid or Li-ion

Max input voltage: 60Vdc

Voltage range: 40-60Vdc

Max charging current: 190A

Max discharging current: 190A

Issue Date: 06/06/2022

Expiry Date: 06/06/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 2

DESCRIPTION OF EQUIPMENT

Ratings:

AC output:

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

Rated frequency: 50Hz,

Max / Rated Output Apparent power: 7.6; 8kVA

Max / rated Output Power: 7.6; 8kW

Max / rated Output current: 33; 34.8A

Power factor: 0.8 leading to 0.8 lagging

GEN port:

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

Rated frequency: 50Hz,

Max / Rated Input Apparent power: 7.6; 8kVA

Max / rated Input Power: 7.6; 8kW

Max / rated Input current: 33; 34.8A

Power factor: 0.8 leading to 0.8 lagging

Issue Date: 06/06/2022

Expiry Date: 06/06/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 3

(Modification 1)

Change the ratings of the PV Input Short-Circuit Current
from 34A/34A; 34A/34A to 39A/39; 39A/39A.

Issue Date: 29/09/2022

Expiry Date: 06/06/2027

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CONTINUATION SHEET 4

(Modification 2)

Add 5 new models:

AI-W5.1-3.6P1-AU, AI-W5.1-5P1-AU, AI-W5.1-6P1-AU,
AI-W5.1-7.6P1-AU, AI-W5.1-8P1-AU

For all models:

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

Operating Temp.: -40°C to 60°C (>45°C derating)

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

Grid side: III

PV input:

V_{max}: 500Vd

VMPP : 150 - 425Vdc

MPPT Full Power Voltage Range: 300–425Vdc, 300–425Vdc,
300–425Vdc, 200–425Vdc, 200–425Vdc

I_{sc}: 19.5+19.5A, 19.5+19.5A, 19.5+19.5A, 39+39A, 39+39A

I_{max}: 13+13A, 13+13A, 13+13A, 26+26A, 26+26A

Issue Date: 23/05/2023

Expiry Date: 06/06/2027

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CONTINUATION SHEET 5

(Modification 2)

Battery input:

Type: Lead-acid or Li-ion

Max input voltage: 60Vdc

Voltage range: 40-60Vdc

Max charging current: 90A, 120A, 135A, 190A, 190A

Max discharging current: 90A, 120A, 135A, 190A, 190A

AC output:

Rated Output voltage: L/N/PE, 230/240V; 50Hz

Max / Rated Output Apparent power: 3.6kVA, 5kVA, 6kVA,
7.6kVA, 8kVA

Max / rated Output current: 15.7A, 21.7A, 26.1A, 33A, 34.8A

Power factor: 0.8 leading to 0.8 lagging

GEN port:

Rated input voltage: L/N/PE, 230/240V; 50Hz,

Max / Rated Input Apparent power: 3.6kVA, 5kVA, 6kVA,
7.6kVA, 8kVA

Max / rated Input Power: 3.6kW, 5kW, 6kW, 7.6kW, 8kW

Max / rated Input current: 15.7a, 21.7A, 26.1A, 33A; 34.8A

Issue Date: 23/05/2023

Expiry Date: 06/06/2027

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CONTINUATION SHEET 6

(Modification 3)

1. Update CDF and PD for adding EMI PCB board in SUN-xK-SG05LP1-AU (x=3,6,5,6,7,7.6,8).
2. Add new model SUN-7K-SG05LP1-AU with Brand of Deye,

Ratings:

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

Operating Temp.: -40°C to 60°C (> 45°C derating)

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

Grid side: III

Firmware version: 5382

PV input:

Vmax: 500Vdc ; VMPP: 150 - 425Vdc

Isc: 39+39A ; Imax: 26+26A

Battery input:

Type: Lead-acid or Li-ion

Max input voltage: 60Vdc

Voltage range : 40-60Vdc

Max charging/discharging current: 175A / 175A

Issue Date: 10/09/2024

Expiry Date: 06/06/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

A handwritten signature in blue ink, appearing to read "John Wang".

John Wang



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CONTINUATION SHEET 7

(Modification 3)

AC output:

Rated Output voltage: L/N/PE; 230/240Vac;50Hz

Max / Rated Output Apparent power: 7000VA

Max / Rated Output Power: 7000W

Max /Rated Output Current: 30.5A

Power factor: 0.8 ind - 0.8 cap

GEN port:

Rated Output voltage: L/N/PE; 230/240Vac;50Hz

Max / Rated input Power:7000W

Max / Rated input Current: 30.5A

Add new models SUN-3.6K-SG05LP1-AU-SM2;
SUN-5K-SG05LP1-AU-SM2; SUN-6K-SG05LP1-AU-SM2;
SUN-7K-SG05LP1-AU-SM2; SUN-7.6K-SG05LP1-AU-SM2;
SUN-8K-SG05LP1-AU-SM2 with Brand of Deye

Ratings:

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

Operating Temp.: -40°C to 60°C (> 45°C derating)

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

Grid side: III

Firmware version: 5382

Issue Date: 10/09/2024

Expiry Date: 06/06/2027

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CONTINUATION SHEET 8

(Modification 3)

PV input:

Vmax: 500Vdc

VMPP:150 - 425Vdc

Isc: 27+27; 27+27; 27+27; 39+39; 39+39; 39+39A

Imax: 18+18;18+18; 18+18; 26+26 ;26+26 ;26+26A

Battery input:

Type: Lead-acid or Li-ion

Max input voltage: 60Vdc

Voltage range : 40-60Vdc

Max charging/discharging current: 90;120;135;175;190;190A

AC output:

Rated Output voltage: L/N/PE; 230/240Vac;50Hz

Max / Rated Output Apparent power: 3600VA; 5000VA; 6000VA;

7000VA;7600VA; 8000VA

Max / Rated Output Power:3600W; 5000W; 6000W;7000W;7600W;

8000W

Max / Rated Output Current:15.7A; 21.8 A; 26.1 A; 30.5 A;

33.1 A; 34.8 A

Power factor:0.8 ind - 0.8 cap

Issue Date: 10/09/2024

Expiry Date: 06/06/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

John Wang



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CONTINUATION SHEET 9

(Modification 3)

GEN port:

Rated Output voltage: L/N/PE; 230/240Vac;50Hz

Max / Rated input Power:3600W; 5000W; 6000W;7000W;7600W;
8000W

Max / Rated input Current: 15.7A; 21.8 A; 26.1 A; 30.5 A;
33.1 A; 34.8 A

Add new models AI-W5.1-3.6P1-AU-B; AI-W5.1-5P1-AU-B;
AI-W5.1-6P1-AU-B; AI-W5.1-7P1-AU-B; AI-W5.1-7.6P1-AU-B;
AI-W5.1-8P1-AU-B with Brand of Deye

Ratings:

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

Operating Temp.: -40°C to 60°C (> 45°C derating)

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

Firmware version: 5382

PV input:

Vmax: 500Vdc

VMPP:150 - 425Vdc

Isc: 19.5+19.5; 19.5+19.5; 19.5+19.5; 39+39; 39+39; 39+39A

Imax:13+13A; 13+13A;13+13A; 26+26A; 26+26A; 26+26A

Issue Date: 10/09/2024

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CONTINUATION SHEET 10

(Modification 3)

Battery input:

Type: Lithium-ion

Max input voltage: 60Vdc

Voltage range : 40-60Vdc

Max charging/discharging current: 90A; 120A; 135A; 175A; 190A; 190A

AC output:

Rated Output voltage: L/N/PE; 230/240Vac; 50Hz

Max / Rated Output Apparent power: 3600VA; 5000VA; 6000VA;
7000VA; 7600VA; 8000VA

Max / Rated Output Power: 3600W; 5000W; 6000W; 7000W; 7600W;
8000W

Max / Rated Output Current: 15.7A; 21.7 A; 26.1 A; 30.5 A;
33 A; 34.8 A

Power factor: 0.8 ind - 0.8 cap

GEN port:

Rated Output voltage: L/N/PE; 230/240Vac; 50Hz

Max / Rated input Power: 3600W; 5000W; 6000W; 7000W; 7600W;
8000W

Max / Rated input Current: 15.7A; 21.7 A; 26.1 A; 30.5 A;
33 A; 34.8 A

Issue Date: 10/09/2024

Expiry Date: 06/06/2027

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