

**Certificate Number:** AZ 69025985

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## CERTIFICATE OF SUITABILITY

Authorised marking: TUV025985E

*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-5K-SG04LP3-AU ; SUN-6K-SG04LP3-AU ;  
SUN-8K-SG04LP3-AU ; SUN-10K-SG04LP3-AU ;  
SUN-12K-SG04LP3-AU

**Ratings:** Rating details refer to CONTINUATION SHEET 1 - 2  
**Standard:** AS/NZS 4777.2:2020+A1  
IEC 62109-1:2010  
IEC 62109-2:2011

**Issue Date:** 28/04/2022  
**Expiry Date:** 28/04/2027

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

A handwritten signature in blue ink, appearing to read "Grant Li".

Grant Li



Acc. No. Z2870404AA  
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## CERTIFICATE OF SUITABILITY

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CONTINUATION SHEET 1

Description of Equipment

Ratings:

For model SUN-5K-SG04LP3-AU; SUN-6K-SG04LP3-AU;  
SUN-8K-SG04LP3-AU; SUN-10K-SG04LP3-AU; SUN-12K-SG04LP3-AU:  
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: 800Vdc

VMPP : 200 - 650Vdc

Isc: 17+17A; 17+17A; 17+17A; 34+17A; 34+17A

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

Battery input:

Type: Lead-acid or Li-ion

Rated voltage: 48Vdc

Voltage range: 40-60Vdc

Max charging current: 120A; 150A; 190A; 210A; 240A

Max discharging current: 120A; 150A; 190A; 210A; 240A

Issue Date: 28/04/2022

Expiry Date: 28/04/2027

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CONTINUATION SHEET 2

Description of Equipment

Ratings:

AC output:

Rated Output voltage: 3L/N/PE, 230/400, 240/415

Rated frequency: 50Hz,

Max / Rated Output Apparent power: 5kVA; 6kVA; 8kVA; 10kVA;

12kVA

Max / rated Output Power: 5kW; 6kW; 8kW; 10kW; 12kW

Max / rated Output current: 10.9A; 13A; 17.4A; 21.7A; 26.1A

Power factor: 0.8 leading to 0.8 lagging

Issue Date: 28/04/2022

Expiry Date: 28/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 3

(Modification 1)

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);
2. Add alternative AC breaker: Nader NDB2T-63 AZ69025002

Issue Date: 25/05/2022

Expiry Date: 28/04/2027

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜV Rheinland

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CONTINUATION SHEET 4

(Modification 2)

1. Change the ratings of PV Input Short-Circuit Current  $I_{sc}$  for SUN-5K-SG04LP3-AU; SUN-6K-SG04LP3-AU; SUN-8K-SG04LP3-AU; SUN-10K-SG04LP3-AU; SUN-12K-SG04LP3-AU from:  
17+17A; 17+17A; 17+17A; 34+17A; 34+17A to  
19.5+19.5A; 19.5+19.5A; 19.5+19.5A; 39+19.5A; 39+19.5A.

2. Change the ratings of AC Maximum output current for SUN-5K-SG04LP3-AU; SUN-6K-SG04LP3-AU; SUN-8K-SG04LP3-AU; SUN-10K-SG04LP3-AU; SUN-12K-SG04LP3-AU from:  
10.9A; 13A; 17.4A; 21.7A; 26.1A to  
7.2A; 8.7A; 11.6A; 14.5A; 17.4A.

Issue Date: 29/09/2022

Expiry Date: 28/04/2027

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

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CONTINUATION SHEET 5

(Modification 3)

Update AC rated output current rating for  
SUN-5K-SG04LP3-AU; SUN-6K-SG04LP3-AU; SUN-8K-SG04LP3-AU;  
SUN-10K-SG04LP3-AU; SUN-12K-SG04LP3-AU from:  
10.9A; 13A; 17.4A; 21.7A; 26.1A to  
7.2A; 8.7A; 11.6A; 14.5A; 17.4A.

Issue Date: 07/12/2022

Expiry Date: 28/04/2027

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

**TÜVRheinland**

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CONTINUATION SHEET 6

(Modification 4)

Add 5 new models:

AI-W5.1-5P3-AU; AI-W5.1-6P3-AU; AI-W5.1-8P3-AU;  
AI-W5.1-10P3-AU; AI-W5.1-12P3-AU

Rating:

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:

Vmax: 800Vdc

VMPP : 200 - 650Vdc

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

I<sub>max</sub>: 13+13A; 13+13A; 13+13A; 26+13A; 26+13A

Issue Date: 23/05/2023

Expiry Date: 28/04/2027

*Signed for and on behalf of TÜV Rheinland Australia Pty Ltd*

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## CERTIFICATE OF SUITABILITY

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CONTINUATION SHEET 7

(Modification 4)

Battery input:

Type: Lead-acid or Li-ion

Rated voltage: 48Vdc

Voltage range: 40-60Vdc

Max charging current: 120A; 150A; 190A; 210A; 240A

Max discharging current: 120A; 150A; 190A; 210A; 240A

AC output:

Rated Output voltage: 3L/N/PE, 400/415V; 50Hz

Max / Rated Output Apparent power: 5kVA; 6kVA; 8kVA; 10kVA;  
12kVA

Max / rated Output Power: 5kW; 6kW; 8kW; 10kW; 12kW

Max / rated Output current: 7.2A, 8.7A, 11.6A, 14.5A, 17.4A

Power factor: 0.8 leading to 0.8 lagging

GEN output:

Rated Output voltage: 3L/N/PE, 400/415V; 50Hz

Rated Output Power: 5kW; 6kW; 8kW; 10kW; 12kW

Rated Output current: 7.2A, 8.7A, 11.6A, 14.5A, 17.4A

Issue Date: 23/05/2023

Expiry Date: 28/04/2027

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