

CERTIFICATE OF SUITABILITY

Authorised marking: TUV-028886-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 complied with the standard(s) listed below in accordance with the scheme herein 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.

CERTIFICATE HOLDER: NingBo Deye Inverter Technology Co., Ltd.
No. 26 South Yongjiang Road, Daqi,
Beilun NingBo
315800 Zhejiang
P.R. China

DESCRIPTION OF ELECTRICAL EQUIPMENT

Declared class: Non-declared
Product: Hybrid Inverter
Trade Name / Manufacturer: Deye
Model Number: SUN-3.6K-SG05LP1-AU , SUN-5K-SG05LP1-AU , SUN-6K-SG05LP1-AU
SUN-7K-SG05LP1-AU , SUN-7.6K-SG05LP1-AU , SUN-8K-SG05LP1-AU
SUN-10K-SG05LP1-AU , 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 , AI-W5.1-10P1-AU-B , SUN-3.6K-SG05LP1-AU-AM2-P
SUN-5K-SG05LP1-AU-AM2-P , SUN-6K-SG05LP1-AU-AM2-P
SUN-7K-SG05LP1-AU-AM2-P , SUN-7.6K-SG05LP1-AU-AM2-P
SUN-8K-SG05LP1-AU-AM2-P , SUN-10K-SG05LP1-AU-AM2-P
Ratings: Ratings refer to Continuation Sheet 1-4 for details
Condition(s): N/A
Standard: AS/NZS 4777.2:2020 + Amd 1:2021 + Amd 2:2024
IEC 62109-1:2010
IEC 62109-2:2011

Issue Date: 09-02-2026
Expiry Date: 09-02-2031

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd



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CONTINUATION SHEET 1

Description of Equipment

Ratings:

For models SUN-3.6K-SG05LP1-AU, SUN-5K-SG05LP1-AU, SUN-6K-SG05LP1-AU, SUN-7K-SG05LP1-AU, SUN-7.6K-SG05LP1-AU, SUN-8K-SG05LP1-AU, SUN-10K-SG05LP1-AU

Protection: Class I, IP65, PD 3 (External), PD 2 (Internal)

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

Overvoltage Category (OVC): PV/Battery sides: II; AC side: III

Inverter topology: Non-Isolated

PV input side:

Vmax: 500Vd.c.

VMPP: 150 – 425Vd.c.

Max. input current: 13+13, 13+13, 13+13, 26+26, 26+26, 26+26, 26+26Ad.c.

Max. short circuit current: 19.5+19.5, 19.5+19.5, 19.5+19.5, 39+39, 39+39, 39+39, 39+39Ad.c.

Battery side:

Battery Voltage Range: 40-60Vd.c.

Max. Charge/Discharge Current: 90, 120, 135, 175, 190, 190, 210Ad.c.

Battery type: Lead-acid or Lithium-ion

AC output side:

Rated Output voltage: L/N/PE, 230/240Va.c.

Rated frequency: 50Hz

Max. / Rated Output Power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated Output Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. / Rated Output Current: 15.7, 21.7, 26.1, 30.5, 33, 34.8, 43.5Aa.c.

Max. Input Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. Input Current: 15.7, 21.7, 26.1, 30.5, 33, 34.8, 43.5Aa.c.

Power factor: 0.8 Leading - 0.8 Lagging

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CONTINUATION SHEET 2

GEN port:

Rated input voltage: L/N/PE, 230/240Va.c.

Rated Output frequency: 50Hz

Max. / Rated input power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated input current: 15.7, 21.7, 26.1, 30.5, 33, 34.8, 43.5Aa.c.

Max. / Rated input apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

For 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, AI-W5.1-10P1-AU-B

Protection: Class I, IP65, PD 3 (External), PD 2 (Internal)

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

Overvoltage Category (OVC): PV/Battery sides: II; AC side: III

Inverter topology: Non-Isolated

PV input side:

Vmax: 500Vd.c.

VMPP: 150 – 425Vd.c.

Max. input current: 18+18, 18+18, 18+18, 32+32, 32+32, 32+32, 32+32Ad.c.

Max. short circuit current: 27+27, 27+27, 27+27, 48+48, 48+48, 48+48, 48+48Ad.c.

Battery side:

Battery Voltage Range: 40-60Vd.c.

Max. Charge/Discharge Current: 90, 120, 135, 175, 190, 190, 210Ad.c.

Battery type: Lithium-ion

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CONTINUATION SHEET 3

AC output side:

Rated Output voltage: L/N/PE, 230/240Va.c.

Rated frequency: 50Hz

Max. / Rated Output Power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated Output Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. / Rated Output Current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8,43.5Aa.c.

Max. Input Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. Input Current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8, 43.5Aa.c.

Power factor: 0.8 Leading - 0.8 Lagging

GEN port:

Rated input voltage: L/N/PE, 230/240Va.c.

Rated Output frequency: 50Hz

Max. / Rated input power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated input current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8,43.5Aa.c.

Max. / Rated input apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

For models SUN-3.6K-SG05LP1-AU-AM2-P, SUN-5K-SG05LP1-AU-AM2-P,SUN-6K-SG05LP1-AU-AM2-P, SUN-7K-SG05LP1-AU-AM2-P, SUN-7.6K-SG05LP1-AU-AM2-P,SUN-8K-SG05LP1-AU-AM2-P, SUN-10K-SG05LP1-AU-AM2-P

Protection: Class I, IP65, PD 3 (External), PD 2 (Internal)

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

Overvoltage Category (OVC): PV/Battery sides: II; AC side: III

Inverter topology: Non-Isolated

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CONTINUATION SHEET 4

PV input side:

Vmax: 500Vd.c.

VMPP: 150 – 425Vd.c.

Max. input current: 18+18, 18+18, 18+18, 32+32, 32+32, 32+32, 32+32Ad.c.

Max. short circuit current: 27+27, 27+27, 27+27, 48+48, 48+48, 48+48,48+48Ad.c.

Battery side:

Battery Voltage Range: 40-60Vd.c.

Max. Charge/Discharge Current: 90, 120, 135, 175, 190, 210Ad.c.

Battery type: Lead-acid or Lithium-ion

AC output side:

Rated Output voltage: L/N/PE, 230/240Va.c.

Rated frequency: 50Hz

Max. / Rated Output Power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated Output Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. / Rated Output Current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8,43.5Aa.c.

Max. Input Apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

Max. Input Current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8, 43.5Aa.c.

Power factor: 0.8 Leading - 0.8 Lagging

GEN port:

Rated input voltage: L/N/PE, 230/240Va.c.

Rated Output frequency: 50Hz

Max. / Rated input power: 3.6, 5, 6, 7, 7.6, 8, 9.999kW

Max. / Rated input current: 15.7, 21.8, 26.1, 30.5, 33.1, 34.8,43.5Aa.c.

Max. / Rated input apparent power: 3.6, 5, 6, 7, 7.6, 8, 9.999kVA

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