

Certificate Number: AZ 69028293

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CERTIFICATE OF SUITABILITY

Authorised marking: TUV-028293-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-5K-SG02LP1-AU-AM2 , SUN-6K-SG02LP1-AU-AM2 ,
SUN-7.6K-SG02LP1-AU-AM2 , SUN-8K-SG02LP1-AU-AM2 ,
SUN-10K-SG02LP1-AU-AM3 , SUN-12K-SG02LP1-AU-AM3

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: 07/11/2024

Expiry Date: 07/11/2029

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

John Wang



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CONTINUATION SHEET 1

Description of Equipment

Ratings:

Protection: Class I, IP65, PD 2 (Inside), PD 3 (Outside)

Operating Temp.: -40°C to 60°C (Derating at 45°C)

Overvoltage Category (OVC): DC sides: II; AC side: III

Inverter topology: Non-Isolated

Firmware version: 3386

PV input:

Vmax: 500Vdc

VMPP: 150-425 Vdc

Isc: 44/44A, 44/44A, 44/44A, 44/44A, 44/44/44A, 44/44/44A;

Imax: 20/20A, 20/20A, 26/26A, 26/26A, 26/26/26A, 26/26/26A

Battery input:

Battery type: Lithium-ion or Lead-acid

Voltage range: 40-60Vdc

Max charging/discharging current: 120/120A, 135/135A
,190/190A, 190/190A, 220/220A, 250/250A.

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John Wang



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CONTINUATION SHEET 2

Description of Equipment

AC output(On-grid):

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

Rated frequency: 50Hz

Rated Output Apparent power: 5000, 6000, 7600, 8000, 9999, 12000VA

Max Output Apparent power: 5000, 6000, 7600, 8000, 9999, 12000VA

Rated Output Power: 5000, 6000, 7600, 8000, 9999, 12000W

Max Output Power: 5000, 6000, 7600, 8000, 9999, 12000W

Max Output Current: 21.8, 26.1, 33.1, 34.8, 43.5, 52.2A

Rated Output Current: 21.8, 26.1, 33.1, 34.8, 43.5, 52.2A

Power factor: 0.8 leading-0.8 lagging

EPS output(with battery)

AC output(Back up):

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

Rated frequency: 50Hz

Rated Output power: 5000, 6000, 7600, 8000, 9999, 12000W

Rated Output Current: 21.8, 26.1, 33.1, 34.8, 43.5, 52.2A

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CONTINUATION SHEET 3

(Modification 1)

For all models:

1. Upgrade the standard to AS/NZS 4777.2:2020+A1:2021+A2:2024

and update the test, see following for details.

-Update Appendix B TABLE: Voltage Harmonic test with data of angle.

-Update Appendix E TABLE: Demand Response Modes Testing including disconnection on external signal with Open switch S9 test condition.

-Update Appendix G.2.2 TABLE: Combined volt-var and volt-watt response modes.

-Update Appendix I (a) Undervoltage and overvoltage trip settings test with test points.

-Update Appendix I (e) TABLE: Underfrequency and over frequency trip settings test with test points.

-Appendix J (b) TABLE: Test for an increase in frequency for inverters without energy storage.

-Appendix J (c) TABLE: Test for a decrease in frequency for inverters without energy storage.

-Update Appendix K TABLE: Multiple inverters testing.

-Appendix L (c) TABLE: Multiple inverter Generation limit control.

-Appendix L (d) TABLE: Single inverter generation limit control.

Continued on page 0005

Issue Date: 27/01/2026

Expiry Date: 07/11/2029

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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Rafeeqe Mohamed



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CONTINUATION SHEET 4

As page 0004 continuation

2. Add SUN-7.6K-SG02LP1-AU-AM2-P , SUN-8K-SG02LP1-AU-AM2-P
SUN-10K-SG02LP1-AU-AM3-P , SUN-12K-SG02LP1-AU-AM3-P .
3. Delete parameter (Max. PV Input Power) on the labels.



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Rafeeqe Mohamed



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