

**Certificate Number:** AZ 69027099

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## CERTIFICATE OF SUITABILITY

Authorised marking: TUV-027099-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-SG01HP3-AU-AM2 , SUN-6K-SG01HP3-AU-AM2 ,  
SUN-8K-SG01HP3-AU-AM2 , SUN-10K-SG01HP3-AU-AM2 ,  
SUN-12K-SG01HP3-AU-AM2 , SUN-15K-SG01HP3-AU-AM2 ,  
SUN-20K-SG01HP3-AU-AM2 , SUN-25K-SG01HP3-AU-AM2 ,  
GB-S5K-AU , GB-S6K-AU , GB-S8K-AU , GB-S10K-AU ,  
GB-S12K-AU , GB-S15K-AU , GB-S20K-AU , GB-S25K-AU

**Ratings:**

Ratings refer to Continuation Sheets 1 to 5 for details

**Standard:**

AS/NZS 4777.2:2020+A1  
IEC 62109-1:2010  
IEC 62109-2:2011

**Issue Date:**

04/05/2023

**Expiry Date:**

04/05/2028

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



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CONTINUATION SHEET 1

Description of Equipment

Ratings:

For all models:

Protection: Class I, IP65, PD 3

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

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

Grid side: III

For models: SUN-xK-SG01HP3-AU-AM2, x=5, 6, 8, 10 &

GB-S5K-AU, GB-S6K-AU, GB-S8K-AU, GB-S10K-AU,

PV input:

Vmax: 1000Vdc

VMPP : 150 - 850Vdc

Isc: 30+30A

Imax: 20+20A

Battery input:

Type: Li-ion

Max Voltage: 700Vdc

Voltage range: 160-700Vdc

Max charging current: 37A

Max discharging current: 37A

Issue Date: 04/05/2023

Expiry Date: 04/05/2028

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CONTINUATION SHEET 2

Description of Equipment

AC output:

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

Rated frequency: 50Hz,

Max / Rated Output Apparent power(kVA): 5, 6, 8, 10

Max / rated Output Power(kW): 5, 6, 8, 10

Max / Rated Output current(A): 7.3, 8.7, 11.6, 14.5

Power factor: 0.8 leading to 0.8 lagging

GEN port:

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

Rated frequency: 50Hz,

Rated Input Apparent power(kVA): 5, 6, 8, 10

Rated Input current(A): 7.3, 8.7, 11.6, 14.5

For models: SUN-12K-SG01HP3-AU-AM2, SUN-15K-SG01HP3-AU-AM2 & GB-S12K-AU, GB-S15K-AU

PV input:

Vmax: 1000Vdc

VMPP : 150 - 850Vdc

Isc: 39+30A

Imax: 26+20A

Issue Date: 04/05/2023

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## CERTIFICATE OF SUITABILITY

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CONTINUATION SHEET 3

Description of Equipment

Battery input:

Type: Li-ion

Max Voltage: 700Vdc

Voltage range: 160-700Vdc

Max charging current: 37A

Max discharging current: 37A

AC output:

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

Rated frequency: 50Hz,

Max / Rated Output Apparent power(kVA): 12, 15

Max / rated Output Power(kW): 12, 15

Max / Rated Output current(A): 17.4, 21.8

Power factor: 0.8 leading to 0.8 lagging

GEN port:

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

Rated frequency: 50Hz,

Rated Input Apparent power(kVA): 12, 15

Rated Input current(A): 17.4, 21.8

For models: SUN-20K-SG01HP3-AU-AM2, SUN-25K-SG01HP3-AU-AM2 & GB-S20K-AU, GB-S25K-AU

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CONTINUATION SHEET 4

Description of Equipment

PV input:

Vmax: 1000Vdc

VMPP : 150 - 850Vdc

Isc: 39+39A

Imax: 26+26A

Battery input:

Type: Li-ion

Max Voltage: 700Vdc

Voltage range: 160-700Vdc

Max charging current: 37A, 50A

Max discharging current: 37A, 50A

AC output:

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

Rated frequency: 50Hz,

Max / Rated Output Apparent power(kVA): 20, 25

Max / rated Output Power(kW): 20, 25

Max / Rated Output current(A): 29.0, 36.3

Power factor: 0.8 leading to 0.8 lagging

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## CERTIFICATE OF SUITABILITY

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CONTINUATION SHEET 5

Description of Equipment

GEN port:

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

Rated frequency : 50Hz,

Rated Input Apparent power(kVA): 20, 25

Rated Input current(A): 29.0, 36.3

Issue Date: 04/05/2023

Expiry Date: 04/05/2028

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**TÜVRheinland**

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