

Certificate Number: AZ 69025502

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CERTIFICATE OF SUITABILITY

Authorised marking: TUV025502E

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:

Fronius Australia Pty. Ltd.
90-92 Lambeck Drive
Tullamarine VIC 3043
Australia

DESCRIPTION OF EQUIPMENT

Declared class:

Non-declared

Product:

Solar Grid Tied Inverter

Trade Name / Manufacturer:

FRONIUS

Model Number:

Primo GEN24 6.0 Plus ; Primo GEN24 6.0 ;
Primo GEN24 6.0 Lite ; Primo GEN24 5.0 Plus ;
Primo GEN24 5.0 ; Primo GEN24 5.0 Lite ;
Model Number refer to CONTINUATION 1 for details

Ratings:

Ratings refer to CONTINUATION SHEET 1-3 for details
Remarks: Alternative Authorised Marking "TUV023866E"
is applicable to above mentioned model.

Standard:

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

Issue Date:

05/10/2021

Expiry Date:

05/10/2026

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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CONTINUATION SHEET 1

DESCRIPTION OF EQUIPMENT

Model Numbers: Primo GEN24 4.6 Plus ; Primo GEN24 4.6 ;
Primo GEN24 4.6 Lite ; Primo GEN24 4.0 Plus ;
Primo GEN24 4.0 ; Primo GEN24 4.0 Lite ;
Primo GEN24 3.6 Plus ; Primo GEN24 3.6 ;
Primo GEN24 3.6 Lite ; Primo GEN24 3.0 Plus ;
Primo GEN24 3.0 ; Primo GEN24 3.0 Lite

Models having: Backup Terminal (PV Point), 3rd party comm.

Interfaces (Modbus TCP, JSON, Digital IO's),

DC-Powerline Communication, Battery activation (hybrid inverter), and Full backup (Hybrid inverter only):

Primo GEN24 6.0 Plus , Primo GEN24 5.0 Plus ,

Primo GEN24 4.6 Plus , Primo GEN24 4.0 Plus ,

Primo GEN24 3.6 Plus , Primo GEN24 3.0 Plus .

Models having: Backup Terminal (PV Point), 3rd party comm.

Interfaces (Modbus TCP, JSON, Digital IO's) and

DC-Powerline Communication

Primo GEN24 6.0 , Primo GEN24 5.0 , Primo GEN24 4.6 ,

Primo GEN24 4.0 , Primo GEN24 3.6 , Primo GEN24 3.0 .

MModels marked "Lite" do not have any of the above function.

Issue Date: 05/10/2021

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CONTINUATION SHEET 2

DESCRIPTION OF EQUIPMENT

Rating for all models

Output voltage 220/230/240 V a.c., single-phase, 50/60 Hz,

$\cos \varphi \geq \pm 0.8$ ind./cap. Class I, IP66, -40°C to +60°C,

Over voltage category: DC/ AC: II / III

Number of MPP trackers: 2

Battery: Voltage: 150 - 455 Vd.c., Max current: 22 A,

PV input voltage range: 65-600Vdc, Input current: 22/12A

Opportunity power output:

230Vac, 53/63Hz, 13.0A, 3000VA, $\cos \varphi = 0-1$ ind./cap.

Ratings for models: Primo GEN24 6.0 Plus, Primo GEN24 6.0,

Primo GEN24 6.0 Lite,

Rated apparent power: 6000 VA, Max AC output Current: 27.5A

Rated AC output current: 27.3A@220V; 26.1A@230V; 25.0A@240V

PV input MPP Voltage: 230-480 Vd.c.

Max. AC charging power for battery: 6000 W

Ratings for models; Primo GEN24 5.0 Plus, Primo GEN24 5.0,

Primo GEN24 5.0 Lite,

Rated Apparent power 5000 VA, Max output Current: 27.5 A,

Rated AC output current: 22.7A@220V; 21.7A@230V; 20.8A@240V

PV input MPP Voltage: 230-530 Vd.c.

Max. AC charging power for battery: 5000 W

Issue Date: 05/10/2021

Expiry Date: 05/10/2026

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CONTINUATION SHEET 3

DESCRIPTION OF EQUIPMENT

Ratings for models: Primo GEN24 4.6 Plus ,
Primo GEN24 4.6 , Primo GEN24 4.6 Lite ,
Rated Apparent Power: 4600 VA, Max output Current: 27.5 A,
Rated AC output current: 20.9A@220V; 20.0A@230V; 19.2A@240V
PV input MPP Voltage: 230-530 Vd.c.
Max. AC charging power for battery: 4600 W

Ratings for models: Primo GEN24 4.0 Plus ,
Primo GEN24 4.0 , Primo GEN24 4.0 Lite ,
Rated Apparent Power: 4000 VA, Max output Current: 25.8A,
Rated AC output current: 18.2A@220V; 17.4A@230V; 16.7A@240V
PV input PV input MPP Voltage: 210-530 Vd.c.
Max. AC charging power for battery: 4000 W

Ratings for models: Primo GEN24 3.6 Plus ,
Primo GEN24 3.6 , Primo GEN24 3.6 Lite
Rated Apparent Power: 3680 VA, Max output Current: 23.7 A,
Rated AC output current: 16.7A@220V; 16.0A@230V; 15.3A@240V
PV input MPP Voltage: 200-530 Vd.c.,
Max. AC charging power for battery: 3680 W

Issue Date: 05/10/2021

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 4

DESCRIPTION OF EQUIPMENT

Ratings for models: Primo GEN24 3.0 Plus ,
Primo GEN24 3.0 , Primo GEN24 3.0 Lite
Rated Apparent Power: 3,000 VA, Max output Current: 19.4 A,
Rated AC output current: 13.6A@220V; 13.0A@230V; 12.5A@240V
PV input MPP Voltage: 190-530 Vd.c.,
Max. AC charging power for battery: 3000 W

Issue Date: 05/10/2021

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜVRheinland

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CONTINUATION SHEET 5

(Modification 1)

Update standard to AS/NZS 4777.2:2020+A1:2021
from AS/NZS 4777.2:2020

Issue Date: 02/12/2021

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd



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CONTINUATION SHEET 6

(Modification 2)

Increase Isc pv from 33A/18A to 36A/19A for below models:

Primo GEN24 3.0
Primo GEN24 3.6
Primo GEN24 4.0
Primo GEN24 4.6
Primo GEN24 5.0
Primo GEN24 6.0

Issue Date: 25/07/2023

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜV Rheinland

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Grant Li



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CONTINUATION SHEET 7

(Modification 3)

Update PWB from 1PN6K to 1PN6K-E1B: new layout with
Infineon modules and EMC adaptations.

Issue Date: 29/08/2023

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd


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CONTINUATION SHEET 8

(Modification 4)

Update Isc pv from 33A/18A to 36A/19A for models as below:

Primo GEN24 3.0 / 3.0 Plus / 3.0 Lite
Primo GEN24 3.6 / 3.6 Plus / 3.6 Lite
Primo GEN24 4.0 / 4.0 Plus / 4.0 Lite
Primo GEN24 4.6 / 4.6 Plus / 4.6 Lite
Primo GEN24 5.0 / 5.0 Plus / 5.0 Lite
Primo GEN24 6.0 / 6.0 Plus / 6.0 Lite

Issue Date: 11/12/2024

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜV Rheinland

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John Wang



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CONTINUATION SHEET 9

(Modification 5)

Increase Isc pv from 36A/19A to 41.25A/22A for models as below:

Primo GEN24 3.0 / 3.0 Plus / 3.0 Lite
Primo GEN24 3.6 / 3.6 Plus / 3.6 Lite
Primo GEN24 4.0 / 4.0 Plus / 4.0 Lite
Primo GEN24 4.6 / 4.6 Plus / 4.6 Lite
Primo GEN24 5.0 / 5.0 Plus / 5.0 Lite
Primo GEN24 6.0 / 6.0 Plus / 6.0 Lite

Issue Date: 03/01/2025

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

TÜV Rheinland

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

John Wang



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CONTINUATION SHEET 10

(Modification 6)

- 1.Update the standard to AS/NZS 4777.2:2020+A1:2021+A2:2024.
- 2.Update the model number list with the addition of Primo GEN24 3.0 to 6.0 SC models below:

Primo GEN24 3.0 SC
Primo GEN24 3.6 SC
Primo GEN24 4.0 SC
Primo GEN24 4.6 SC
Primo GEN24 5.0 SC
Primo GEN24 6.0 SC
Primo GEN24 3.0 Plus SC
Primo GEN24 3.6 Plus SC
Primo GEN24 4.0 Plus SC
Primo GEN24 4.6 Plus SC
Primo GEN24 5.0 Plus SC
Primo GEN24 6.0 Plus SC

Models having: Backup Terminal (PV Point), 3rd party comm.
Interfaces (Modbus TCP, JSON, Digital IO's),
DC-Powerline Communication, Battery activation (hybrid inverter), and Full backup (Hybrid inverter only):

Issue Date: 22/10/2025

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

A handwritten signature in black ink, appearing to read "Rafeeqe Mohamed".

Rafeeqe Mohamed



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CONTINUATION SHEET 11

(Modification 6)

DESCRIPTION OF EQUIPMENT

Primo GEN24 6.0 Plus SC, Primo GEN24 5.0 Plus SC,
Primo GEN24 4.6 Plus SC, Primo GEN24 4.0 Plus SC,
Primo GEN24 3.6 Plus SC, Primo GEN24 3.0 Plus SC.

Models having: Backup Terminal (PV Point), 3rd party comm.

Interfaces (Modbus TCP, JSON, Digital IO's) and
DC-Powerline Communication

Primo GEN24 6.0 SC, Primo GEN24 5.0 SC, Primo GEN24 4.6 SC,
Primo GEN24 4.0 SC, Primo GEN24 3.6 SC, Primo GEN24 3.0 SC.

Rating for all Primo GEN24 SC models:

Safety Class I, IP66, -40°C to +60°C

Over voltage category: DC / AC: II / III

Rating for all Primo GEN24 SC models:

Grid power output: 220/230/240 Va.c., single-phase, 50/60 Hz
 $\cos \varphi \geq \pm 0.8$ ind./cap.

Opportunity power output: 230 Va.c., 53/63 Hz, 13.0 A, 3000VA,
 $\cos \varphi = 0-1$ ind./cap.

Issue Date: 22/10/2025

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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Rafeeqe Mohamed



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CONTINUATION SHEET 12

(Modification 6)

DESCRIPTION OF EQUIPMENT

Number of MPP trackers: 2, MPP Voltage: 190-480 Vd.c.

PV input: Voltage: 65-600 Vd.c., Max. current: 22 A/16 A,

Isc pv: 44 A/32 A

Battery: Voltage: 150-465 Vd.c., Max current: 22 A

Ratings for models: Primo GEN24 6.0 Plus SC,

Primo GEN24 6.0 SC

Rated apparent power: 6000 VA

Max. AC output current: 27.5 A

Rated AC output current: 27.3A@220V; 26.1A@230V; 25.0A@240V

Max. AC charging power for battery: 6000 W

Ratings for models: Primo GEN24 5.0 Plus SC,

Primo GEN24 5.0 SC

Rated Apparent power 5000 VA

Max. output Current: 27.5 A

Rated AC output current: 22.7A@220V; 21.7A@230V; 20.8A@240V

Max. AC charging power for battery: 5000 W

Issue Date: 22/10/2025

Expiry Date: 05/10/2026

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

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CONTINUATION SHEET 13

(Modification 6)

DESCRIPTION OF EQUIPMENT

Ratings for models: Primo GEN24 4.6 Plus SC,

Primo GEN24 4.6 SC

Rated Apparent Power: 4600 VA

Max. output Current: 27.5 A

Rated AC output current: 20.9A@220V; 20.0A@230V; 19.2A@240V

Max. AC charging power for battery: 4600 W

Ratings for models: Primo GEN24 4.0 Plus SC,

Primo GEN24 4.0 SC

Rated Apparent Power: 4000 VA

Max. output Current: 25.8A

Rated AC output current: 18.2A@220V; 17.4A@230V; 16.7A@240V

Max. AC charging power for battery: 4000 W

Ratings for models: Primo GEN24 3.6 Plus SC,

Primo GEN24 3.6 SC

Max. output Current: 23.7 A

Rated Apparent Power: 3680 VA

Rated AC output current: 16.7A@220V; 16.0A@230V; 15.3A@240V

Max. AC charging power for battery: 3680 W

Issue Date: 22/10/2025

Expiry Date: 05/10/2026

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CONTINUATION SHEET 14

(Modification 6)

DESCRIPTION OF EQUIPMENT

Ratings for models: Primo GEN24 3.0 Plus SC,

Primo GEN24 3.0 SC

Rated Apparent Power: 3000 VA

Max. output Current: 19.4 A

Rated AC output current: 13.6A@220V; 13.0A@230V; 12.5A@240V

Max. AC charging power for battery: 3000 W

Issue Date: 22/10/2025

Expiry Date: 05/10/2026

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