

Date: 2025-03-17

Sol-Ark, LLC
805 Central Expy S
Allen TX 75013
USA

Ref: CU US + Canada Certificate

Type of Equipment : Grid Support Utility Interactive Hybrid Inverter
Certificate No. : CU 72500629 0001
Report No. : US25L39S 001
Engineer/Contact : Himanshu Vaidya
Standards : UL 1741:2021
CSA C22.2 No. 107.1-16

Dear Madame or Sir,

The above referenced technical equipment has been tested and was found to be in compliance with the listed test requirement(s). Enclosed, please find the TUV Rheinland approval document No. CU 72500629 0001.

It authorizes you to label the listed product(s) with the TUV Rheinland Mark identified in the approval document. For compliance, the Test Mark must be on the approved unit.

Your product is subject to regular factory follow-up inspections as well as annual certificate and factory registration fees.

In using the TUV Rheinland Mark you are obligated to comply with the TUV Rheinland of North America Service Agreement.

If we can be of any further assistance to you, please do not hesitate to contact us.

With kind regards,

Certification Body

Dipl.-Ing. M. Glagla

Enclosure

Certificate

Certificate no.

CU 72500629 0001

License Holder:

Sol-Ark, LLC
805 Central Expy S
Allen TX 75013
USA

Manufacturing Plant:

Sol-Ark LLC
915 Enterprise Blvd.
Allen TX 75013
USA

Report Number:

US25L39S 001

Client Reference:

Anthony Tran

Certification acc. to:

UL 1741:2021
CSA C22.2 No. 107.1-16

Product Information**Certified Product:**

Grid Support Utility Interactive Hybrid Inverter

Model Designation:

60K-3P-480V, 50K-3P-480V,
40K-3P-480V, 30K-3P-480V

TUV Rheinland of North America, Inc.
400 Beaver Brook Rd, Boxborough, MA 01719
Tel +1 (978) 266 9500, Fax +1 (978) 266-9992

www.tuv.com

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Technical Data:

Rated Voltage:

PV Port

- 1),2) VMAX Input: DC 1000V
Input Voltage Range: DC 150-850V
MPPT Full Power Voltage Range: DC 360-850V
Start PV Voltage: DC 180V
- 3) VMAX Input: DC 1000V
Input Voltage Range: DC 150-850V
MPPT Full Power Voltage Range: DC 540-850V
Start PV Voltage: DC 180V
- 4) VMAX Input: DC 1000V
Input Voltage Range: DC 150-850V
MPPT Full Power Voltage Range: DC 450-850V
Start PV Voltage: DC 180V

Battery Port

- 1),2),3),4) Rated Input Voltage Range: DC 160-800V
Max. input Voltage: DC 800V Grid Input
- 1),2),3),4) AC 277/480V 3L/N/PE; 60Hz

GEN Port

- 1),2),3),4) AC 277/480V 3L/N/PE; 60Hz

Rated Current/Power:

PV Port

- 1) Isc PV: 55A+55A+55A
Maximum DC Input Current: 36A+36A+36A
Backfeed Current: 0A
- 2),3),4) Isc PV: 55A+55A+55A+55A
Maximum DC Input Current: 36A+36A+36A+36A
Backfeed Current: 0A

Battery Port

- 1),2),3),4) Max. battery charge current: 50A+50A
Max. battery discharge current: 50A+50A

Grid Input

- 1) Max. input apparent power: 30 kVA
Max. input current: 36.2A
- 2) Max. input apparent power: 40 kVA

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- Max. input current: 48.2A
3) Max. input apparent power: 50 kVA
Max. input current: 60.2A
4) Max. input apparent power: 60 kVA
Max. input current: 72.3A

GEN Port

- 1) Max. input apparent power: 30 kVA
Max. input current: 36.2A
2) Max. input apparent power: 40 kVA
Max. input current: 48.2A
3) Max. input apparent power: 50 kVA
Max. input current: 60.2A
4) Max. input apparent power: 60 kVA
Max. input current: 72.3A

Protection Class: I

PV Port overvoltage category: 1),2),3),4) II

Battery Port Battery type: 1),2),3),4) Li-Ion

AC Output; 1) Rated Output Voltage: AC 277/480V, 3L/N/PE

Rated Output Frequency: 60 Hz

Rated Output Power PE: 30kW

Max. Output Power: 30kW

Max. Output Apparent Power: 30kVA

Rated Output Current: 36.2A

Max. Output Current I_{max}: 36.2A

Power Factor: -0.8 to 0.8

Overvoltage Category: IV

- 2) Rated Output Voltage: AC 277/480V, 3L/N/PE

Rated Output Frequency: 60 Hz

Rated Output Power PE: 40kW

Max. Output Power: 40kW

Max. Output Apparent Power: 40kVA

Rated Output Current: 48.2A

Max. Output Current I_{max}: 48.2A

Power Factor: -0.8 to 0.8

Overvoltage Category: IV

- 3) Rated Output Voltage: AC 277/480V, 3L/N/PE

Rated Output Frequency: 60 Hz

Rated Output Power PE: 50kW

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Max. Output Power: 50kW
Max. Output Apparent Power: 50kVA
Rated Output Current: 60.2A
Max. Output Current I_{max}: 60.2A
Power Factor: -0.8 to 0.8
Overvoltage Category: IV

- 4) Rated Output Voltage: AC 277/480V, 3L/N/PE
Rated Output Frequency: 60 Hz
Rated Output Power PE: 60kW
Max. Output Power: 60kW
Max. Output Apparent Power: 60kVA
Rated Output Current: 72.3A
Max. Output Current I_{max}: 72.3A
Power Factor: -0.8 to 0.8
Overvoltage Category: IV

Enclosure Protection: TYPE 3R, IP65
Rated Ambient Temperature: -40°C to 60°C, > 45°C Derating
Pollution degree: 3
Altitude: 2000m
Weight: 80kg
Dimension: 527mm*894mm*294mm
Type of inverter: Non-isolated
Firmware version: 1020

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Remarks:

1. Also evaluated to:
UL 1741 3rd Edition Supplement SB for grid support functions, and IEEE 1547-2018, and IEEE 1547 1-2020. Normal Operating Performance Category B; Abnormal Operating Performance III. to the following SRDs:
-Hawaiian Electric SRD V2.0.
UL 1741 3rd Edition Supplement SB for interoperability functions and IEEE 1547-2018 and IEEE 2030.5 protocol.
UL1699B for photovoltaic DC arc-fault circuit interrupter protection integrated in inverter.
UL1741 (2nd Edition, April 20,2010) CRD, Subject: Power Control Systems (PCS).
UL1998 Software evaluation was performed for safety related functions.

Appendix:

1, 1-23



Date of issue:

2025-03-17
(yr/mo/day)

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