



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/24/SZ/00092

Contract Number: 802329

Certificate Project Number: SZ-CERT240100145



Certified Product: Rechargeable Li-ion Battery Storage System

Trademarks: Sol-Ark

Model(s): L3 HVR-60

Technical Data: 614.4Vd.c, 100Ah

307.2Vd.c, 200Ah;

Maximum charge current: 100A;

Maximum discharge current: 100A;

Charge operating temperature: 0 to 55 °C;

Discharge operating temperature: -20 to 55 °C

Certificate Holder: Portable Solar LLC d/b/a Sol-Ark

805 Central Expwy S Allen, Texas, 75013, United States of America

This certificate supersedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:

ANSI/CAN/UL 1973, 2.0 Edition, Dated February, 2018

Authorized by:

Jason Wei
Certifier

Effective date: 06 February 2024



Certification Body

Connectivity & Products, a division of SGS North America Inc.
620 Old Peachtree Road, Ste. 100, Suwanee, GA 30024, USA
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CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/24/SH/00065

Contract Number: 802329

Certificate Project Number: SH-CERT240100005

Certified Product: High Voltage Hybrid ESS/L3 Series LimitLess Lithium™

Trademarks: Sol-Ark

Model(s): L3 HVR-60KWH-60K, L3 HVR-60KWH-30K,

L3 HVR-60KWH-60K-Y(Y=2,3,4,5,6), L3 HVR-60KWH-30K-Y (Y=2,3,4,5,6)

Technical Data: See page 2-3

Certificate Holder: Portable Solar LLC d/b/a Sol-Ark
805 Central Expwy S Allen, TX 75013, USA

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ANSI/CAN/UL 9540:2023, Third Edition, Dated June 28, 2023

Authorized by:

Mark Lohmann
Certifier

Effective date: 20 February 2024



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/24/SH/00065

Contract Number: 802329

Certificate Project Number: SH-CERT240100005

Additional Information:

Technical Data:

L3 HVR-60KWH-60K, L3 HVR-60KWH-60K-Y (Y=2,3,4,5,6) series and

L3 HVR-60KWH-30K, L3 HVR-60KWH-30K-Y (Y=2,3,4,5,6) series can be matched with different numbers of battery racks (the maximum number is 6). And it is simply connected in parallel to increase the system capacity, the models and ratings of battery rack and PCS have not changed, so the ratings of PCS and battery rack are written in the report.

L3 HVR-60KWH-60K, L3 HVR-60KWH-60K-Y(Y=2,3,4,5,6) series:

PCS part:

AC Connection

AC Input/Output Voltage: 3L/N/PE 277/480V_{a.c.}

AC Input/Output Frequency: 60Hz

AC Input/Output Rated Current: 72.3A_{a.c.}

Max. AC Input/Output Current: 72.3A_{a.c.}

AC Input/Output Rated Power: 60000W

Max. Active Input/ Output Power: 60000W

Max. Continuous AC Passthrough current: 200A_{a.c.}

Battery Connection

Battery Voltage Range: 160~800 V_{d.c.}

PV Connection

Max. PV Input Voltage: 1000V_{d.c.}

MPPT Input Range: 150V_{d.c.}~850V_{d.c.}

Max. PV Input Current: 36Ad.c.+36Ad.c.+36Ad.c.+36Ad.c.

Max. PV Input Power: 78000W

Battery Part:

L3 HVR-60

Nominal Voltage: 614.4V_{d.c.}

Rated Energy: 61.44kWh

Nominal Charge/Discharge Current: 100Ad.c.

Charge Temperature: 0~55°C

Discharge Temperature: -20°C~55°C;

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Contract Number: 802329

Certificate Project Number: SH-CERT240100005

Additional Information:

Technical Data:

L3 HVR-60KWH-30K, L3 HVR-60KWH-30K-Y (Y=2,3,4,5,6) series:

PCS part:

AC Connection

AC Input/Output Voltage: 3L/N/PE 120/208Va.c.

AC Input/Output Frequency: 60Hz

AC Input/Output Rated Current: 83.4Aa.c.

Max. AC Input/Output Current: 83.4Aa.c.

AC Input/Output Rated Power: 30000W

Max. Active Input/ Output Power: 30000W

Max. Continuous AC Passthrough current: 200Aa.c.

Battery Connection

Battery Voltage Range: 160~500Vd.c.

PV Connection

Max. PV Input Voltage: 550Vd.c.

MPPT Input Range: 150Vd.c.-500Vd.c.

Max. PV Input Current: 36Ad.c.+36Ad.c.+36Ad.c. +36Ad.c.

Max. PV Input Power: 39000W

Battery Part:

L3 HVR-60

Nominal Voltage: 307.2Vdc

Rated Energy: 61.44kWh

Nominal Charge/Discharge Current: 100Ad.c.

Charge Temperature: 0°C ~55°C

Discharge Temperature: -20°C ~55°C

Other Ratings: Energy storage system protection rating: IP55