CERTIFICATE OF COMPLIANCE

Certificate Number: **SGSNA/25/GZ/00397X**

Contract Number: 802330
Certificate Project Number: GZ-CERT250903931

Certified Product: Solar Home Energy Storage System
Trademarks: GSL ENERGY

Model(s): HESS-SW-ZKX-Y-IP20, HESS-SW-ZKX-Y-IP65, HESS-SF-ZKX-Y-IP65
(X=1, 2, 3, 4, 5, 6 which means the QTY of inverter for the system, Y=1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 which means the QTY of battery in parallel of the system, Z=8, 10, 12 which means the power of system)

Technical Data: See Page 2

Certificate Holder: Shenzhen GSL Energy Co., Ltd.
A601-602, Building 1, Tianan Cyber Park, Long Gang Central City, Shenzhen, Guangdong, China

This certificate supercedes 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 9540:2023,Third Edition, Dated June 28, 2023

Certification Condition

The Solar Home Energy Storage System is to be installed in accordance with the National Electrical Code NFPA 70 (National Electric Code or CSA C22.1 (Canadian Electric Code) and Installation of Stationary Energy Storage Systems, NFPA 855 by end user.

Authorized by: Effective date: 31 October 2025

Mark Lohmann
Certifier

SGS operates certification programs under the authority of several accreditation or recognition bodies including A2LA, ANAB, OSHA NRTL, and Standards Council of Canada. This certificate is issued by the company under its General Conditions for Certification Services accessible at https://www.sgs.com/en/terms-and-conditions. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this Certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Certification Body

Connectivity & Products, a division of SGS North America Inc.
620 Old Peachtree Road, Ste. 100, Suwanee, GA 30024, USA
t +1 770 570 1800 f +1 770 277 1240 www.sgs.com

CERTIFICATE OF COMPLIANCE

Certificate Number: **SGSNA/25/GZ/00397X**

Contract Number: 802330
Certificate Project Number: GZ-CERT250903931

Technical Data:

HESS-SW-ZKX-Y-IP20
HESS-SW-ZKX-Y-IP65
HESS-SF-ZKX-Y-IP65
Z=8
PV input ratings:
Vmax PV (Vdc) (Absolute Max.):550Vdc
MPPT Voltage Range (Vdc):125-450Vdc
Vdc Range @ Full Power (Vdc):275-450Vdc
Isc PV (Absolute Max.) (A):40*2
Max. PV Input Current / Strings(A):32*2
Max Input Power:6.6kW
AC input/output (on-grid) of each unit:
Grid Voltage Range (Vac): 106-132/211-264 Vac (Split Phase),106-132/183-228Vac (Three Phase)
Max. cont. input/output Current (Aac): @240V 36.6A, @208V 42.3A
Max. cont. input/output Power (kW):8.8kW
Max. cont. Apparent Power (kVA):8.8kVA
Power Factor (Adjustable): 1.0(-0.8~+0.8)
Frequency (Hz):60Hz
AC Load output (Stand-alone) of each unit:
Normal Voltage (L-L) (VAC):240/208Vac
Normal Voltage (L-N) (VAC): 120Vac
Nominal Current (A): @240V 36.6A, @208 42.3A
Max. cont. Power (kW): 8.8kW
Max. cont. Apparent Power (kVA): 8.8kVA
Power factor (adjustable):1.0
Frequency (Hz):60Hz
Battery:46-56V
Nominal Voltage/Nominal Capacity: 51.2V/280Ah
Max. Energy storage capacity: 229.44kWh
Configuration: Covers inverters up to 6pcs in parallel, batteries up to 16pcs in parallel.

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Technical Data:

HESS-SW-ZKX-Y-IP20
HESS-SW-ZKX-Y-IP65
HESS-SF-ZKX-Y-IP65
Z=10
PV input ratings:
Vmax PV (Vdc) (Absolute Max.):550Vdc
MPPT Voltage Range (Vdc):125-450Vdc
Vdc Range @ Full Power (Vdc):275-450Vdc
Isc PV (Absolute Max.) (A):40*2
Max. PV Input Current / Strings(A):32*2
Max Input Power:7.5kW
AC input/output (on-grid) of each unit:
Grid Voltage Range (Vac): 106-132/211-264 Vac (Split Phase),106-132/183-228Vac (Three Phase)
Max. cont. input/output Current (Aac): @240V 41.7A, @208V 48.1A
Max. cont. input/output Power (kW):10kW
Max. cont. Apparent Power (kVA):10kVA
Power Factor (Adjustable): 1.0(-0.8~+0.8)
Frequency (Hz):60Hz
AC Load output (Stand-alone) of each unit:
Normal Voltage (L-L) (VAC):240/208Vac
Normal Voltage (L-N) (VAC): 120Vac
Nominal Current (A): @240V 41.7A, @208 48.1A
Max. cont. Power (kW): 10kW
Max. cont. Apparent Power (kVA): 10kVA
Power factor (adjustable):1.0
Frequency (Hz):60Hz
Battery:46-56V
Nominal Voltage/Nominal Capacity: 51.2V/280Ah
Max. Energy storage capacity: 229.44kWh
Configuration: Covers inverters up to 6pcs in parallel, batteries up to 16pcs in parallel.

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Technical Data:

HESS-SW-ZKX-Y-IP20
HESS-SW-ZKX-Y-IP65
HESS-SF-ZKX-Y-IP65
Z=12
PV input ratings:
Vmax PV (Vdc) (Absolute Max.):550Vdc
MPPT Voltage Range (Vdc):125-450Vdc
Vdc Range @ Full Power (Vdc):275-450Vdc
Isc PV (Absolute Max.) (A):40*2
Max. PV Input Current / Strings(A):32*2
Max Input Power:9kW
AC input/output (on-grid) of each unit:
Grid Voltage Range (Vac): 106-132/211-264 Vac (Split Phase),106-132/183-228Vac (Three Phase)
Max. cont. input/output Current (Aac): 50A
Max. cont. input/output Power (kW): @240V 12kW, @208V 10.4kW
Max. cont. Apparent Power (kVA): @240V 12kVA, @208V 10.4kVA
Power Factor (Adjustable): 1.0(-0.8~+0.8)
Frequency (Hz):60Hz
AC Load output (Stand-alone) of each unit:
Normal Voltage (L-L) (VAC):240/208Vac
Normal Voltage (L-N) (VAC): 120Vac
Nominal Current (A): 50A
Max. cont. Power (kW): @240V 12kW, @208V 10.4kW
Max. cont. Apparent Power (kVA): @240V 12kVA, @208V 10.4kVA
Power factor (adjustable):1.0
Frequency (Hz):60Hz
Battery:46-56V
Nominal Voltage/Nominal Capacity: 51.2V/280Ah
Max. Energy storage capacity: 229.44kWh
Configuration: Covers inverters up to 6pcs in parallel, batteries up to 16pcs in parallel.

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