

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

SUZHOU JOHNRAY SOLAR ENERGY CO., LTD

Room 209, Building 1, Lejiahui Business Plaza, New District, Suzhou,
Jiangsu, China

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product(s): Residential Lithium-ion Battery System
Model type(s): JRH25-S4, JRH25-S5, JRH25-S6, JRH25-S7, JRH25-S8, JRH25-S9, JRH25-S10

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program: P31-VA-01 Rev. 02 / 04.20
Certification fundamental(s): EN 62477-1:2012+A1:2017
Registered no.: 44 799 23 406749 - 418
Report no.: 492012864.001
File no.: PVP06107/23E-02



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2023-12-26

TÜV NORD CERT GmbH

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Please also pay attention to the information stated overleaf.

ANNEX

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to Certificate registration no. 44 799 23 406749 - 418

Description of product(s):

Model type:	JRH25-S4
Rated capacity:	50Ah
Nominal voltage:	204.8V
Watt-hour:	10.24kWh
Recommended (rated) charge method:	26A (0.5C) charge to 227.2V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	230.4V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 195.2V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	172.8V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	123±1kg
Nominal dimension:	504x 737.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)



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Model type:	JRH25-S5
Rated capacity:	50Ah
Nominal voltage:	256.0V
Watt-hour:	12.8kWh
Recommended (rated) charge method:	26A (0.5C) charge to 284V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	288.0V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 244V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	216.0V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	148±1kg
Nominal dimension:	504x 882.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)



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Model type:	JRH25-S6
Rated capacity:	50Ah
Nominal voltage:	307.2V
Watt-hour:	15.36kWh
Recommended (rated) charge method:	26A (0.5C) charge to 340.8V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	345.6V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 292.8V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	259.2V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	175±1kg
Nominal dimension:	504x 1027.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)



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Model type:	JRH25-S7
Rated capacity:	50Ah
Nominal voltage:	358.4V
Watt-hour:	17.92kWh
Recommended (rated) charge method:	26A (0.5C) charge to 397.6V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	403.2V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 341.6V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	302.4V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	201±1kg
Nominal dimension:	504x 1172.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)

A handwritten signature in blue ink, appearing to read "Alma Uls".

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Model type:	JRH25-S8
Rated capacity:	50Ah
Nominal voltage:	409.6V
Watt-hour:	20.48kWh
Recommended (rated) charge method:	26A (0.5C) charge to 454.4V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	460.8V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 390.4V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	345.6V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	227±1kg
Nominal dimension:	504x 1317.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)



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Model type:	JRH25-S9
Rated capacity:	50Ah
Nominal voltage:	409.6V
Watt-hour:	23.04kWh
Recommended (rated) charge method:	26A (0.5C) charge to 511.2V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	518.4V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 439.2V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	388.8V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	254±1kg
Nominal dimension:	504x 1462.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)



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Model type:	JRH25-S10
Rated capacity:	50Ah
Nominal voltage:	512.0V
Watt-hour:	25.6kWh
Recommended (rated) charge method:	26A (0.5C) charge to 568.0V CC-CV
Maximum charge current:	26A (0.5C)
Maximum charge voltage:	576.0V
Charge temperature range:	From 0°C to 55°C
Recommended (rated) discharge method:	35A (0.7C) discharge to 488V
Maximum discharge current :	35A (0.7C)
Discharge cut-off voltage:	432.0V
Discharge temperature range:	From -10°C to 55°C
Nominal weight:	280±1kg
Nominal dimension:	504x 1607.5 x 350mm (W H D)
Storage temperature range:	From -20°C to 45°C
IP protection class :	IP20
Overvoltage category:	OVC II
Class of equipment:	Class I
Pollution degree:	PD2 (inside), PD3 (outside)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

