

## VERIFICATION OF COMPLIANCE

No.: LVD GZES2211022774PV02

Applicant: FOXESS CO.,LTD  
No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China

Manufacturer: FOXESS CO.,LTD  
No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China

Product Name: Rechargeable Li-ion Battery System

Product Description: Inverter used in PV system

Model No.: ECS4800-H2, ECS4800-H3, ECS4800-H4  
ECS4800-H5, ECS4800-H6, ECS4800-H7

Trade Mark: 

Rating: See page 2 to page 4

Protection against Electric Shock: Class I

Additional Information: IP 65  
Software version: BMU: V1.5, IVU: V1.0, BCU: V1.6

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN 62477-1:2012+A11:2014+A1:2017+A12:2021

as shown in the  
Test Report Number(s): GZES221102277402

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant harmonized standards under the Low Voltage Directive 2014/35/EU. The CE marking as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that the conditions in annexes III and IV of the Directive are fulfilled.

  
David Guo  
Senior Technical Manager  
SGS-CSTC



2023-03-02

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Other information added:

Rating :

The battery system consists of two different types of lithium-ion batteries:

1. CS is the battery module, and CM includes system controller(BMU, BCU, IVU) and battery module.
2. CM contains the controller of the entire system, so each system must have one CM.
3. System consists of at least 1 CM+1 CS and up to 1 CM+6 CS, refer to the number of batteries in the following models list for details.

Battery			
Specifications for CS		Specifications for CM	
Model No.	CS4800	Model No.	CM4800
Max. charge/discharge current (A)	50	Max. charge/discharge current (A)	50
Operating temperature (°C)	Charge: 0°C ~55°C Discharge: -10°C ~55°C	Operating temperature (°C)	Charge: 0°C ~55°C Discharge: -10°C ~55°C
Storage temperature (°C)	-10 ~ 35	Storage temperature (°C)	-10 ~ 35
Humidity	5 ~95%	Humidity	5 ~95%
Normal voltage (V)	44.8	Normal voltage (V)	44.8
Normal capacity (Ah)	104(1C)/106(1/3C)	Normal capacity (Ah)	104(1C)/106(1/3C)
Normal energy (kWh)	4.66(1C)/4.74(1/3C)	Normal energy (kWh)	4.66(1C)/4.74(1/3C)
Battery voltage range [V]	40.6-51.5	Battery voltage range [V]	40.6-51.5
Max. Continuous discharge/charge current (A)	50/50	Max. Continuous discharge/charge current (A)	50/50
(CC-CV) Standard charging current (A)	30	(CC-CV) Standard charging current (A)	30
Constant current and voltage charging cut-off current (A)	5.3	Constant current and voltage charging cut-off current (A)	5.3
Peak discharge current (60s)	65	Peak discharge current (60s)	65
Dimensions (L*W*H) (mm)	570*380*172	Dimensions (L*W*H) (mm)	570*380*188
Weight (Kg)	39±1	Weight (Kg)	43±1
Communication interfaces	CAN	Communication interfaces	CAN

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Battery system			
Model or Type designation	ECS4800-H2	ECS4800-H3	ECS4800-H4
Battery designation	IFpP/53/149/ 113/[(14S)2S JM/-10+50/90	IFpP/53/149/ 113/[(14S)3S JM/-10+50/90	IFpP/53/149/ 113/[(14S)4S JM/-10+50/90
The number of batteries	1CM+1CS	1CM+2CS	1CM+3CS
Normal voltage (V)	89.6	134.4	179.2
Normal capacity (Ah)	104		
Normal energy (kWh)	9.32	13.98	18.64
Battery voltage range(V)	81.2-103.0	121.8-154.5	162.4-206.0
Max. charge/discharge current (A)	50/50		
(CC-CV) Standard charging current (A)	30		
Constant current and constant voltage charging cut-off current (A)	5.3		
Peak discharge Current (60s) (A)	65		
Storage temperature (°C)	-10°C ~35°C		
Operating Temperature range (°C)	Charge: 0°C ~55°C /Discharge: -10°C ~55°C		
Discharge capacity (Ah)	-20±2°C @0.5C @84%/ 25±2°C @0.5C @100% /55±2°C @0.5C @100%		
Cycle life	≥6000 @25°C @ 70%SOH		
Ingress protection	IP65		
Protective class	Class 1		
Demensions (L x W x H) (mm)	570*380*386	570*380*524	570*380*662
Weight(kg)	178.5	217.5	256.5

  
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Battery system			
Model or Type designation	ECS4800-H5	ECS4800-H6	ECS4800-H7
Battery designation	IFpP/53/149/ 113/[(14S)5S JM/-10+50/90	IFpP/53/149/ 113/[(14S)6S JM/-10+50/90	IFpP/53/149/ 113/[(14S)7S JM/-10+50/90
The number of batteries	1CM+4CS	1CM+5CS	1CM+6CS
Normal voltage (V)	224	268.8	313.6
Normal capacity (Ah)	104		
Normal energy (kWh)	23.30	27.96	32.61
Battery voltage range(V)	203-257.6	243.6-309.1	284.2-360.6
Max. charge/discharge current (A)	50/50		
(CC-CV) Standard charging current (A)	30		
Constant current and constant voltage charging cut-off current (A)	5.3		
Peak discharge Current (60s) (A)	65		
Storage temperature (°C)	-10°C ~35°C		
Operating Temperature range (°C)	Charge: 0°C ~55°C /Discharge: -10°C ~55°C		
Discharge capacity (Ah)	-20±2°C @1C @75% /25±2°C @0.5C @100% /55±2°C @0.5C @100%		
Cycle life	≥6000 @25°C @ 70%SOH		
Ingress protection	IP65		
Protective class	Class 1		
Dimensions (L x W x H) (mm)	570*380*800	570*380*938	570*380*1076
Weight(kg)	295.5	334.5	373.5

  
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