

VERIFICATION OF COMPLIANCE

No.: UKCA 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: BS EN 62477-1:2012 + 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 designated standards under UK Legislation - Electrical Equipment (Safety) Regulations 2016. The UKCA marking as shown below can be affixed, under the responsibility of the manufacturer, after completion of a UK Declaration of Conformity and compliance with all relevant UK Legislations.


David Guo
Senior Technical Manager
SGS-CSTC



UK CA

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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No.:

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Battery system			
Model or Type designation	ECS4800-H2	ECS4800-H3	ECS4800-H4
Battery designation	IFpP/53/149/ 113/[(14S)2S]M/-10+50/90	IFpP/53/149/ 113/[(14S)3S]M/-10+50/90	IFpP/53/149/ 113/[(14S)4S]M/-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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No.:

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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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