Safiery Meteor Lithium has these Compliance certificates IEC62619 – Certificate number: DK- 157722-UL

Certificate is Issued in Denmark

IEC IECEE

Ref. Certif. No.
DK-157722-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Lithium-ion batteries
Name and address of the applicant	Safiery Pty Ltd UNIT45, 8 DISTRIBUTION COURT ARUNDEL, QLD4214, AUSTRALIA
Name and address of the manufacturer	Safiery Pty Ltd Rundong Industrial Park, High-tech Zone, Zaozhuang City, Shandong, China
Name and address of the factory Note: *When more than one factory, please report on page 2*	Safiery Pty Ltd Building 4, Rundong Industrial Park, High-tech Zone, Zaozhuang City, Shandong, China ☐ Additional Information on page 2
Ratings and principal characteristics	51.2V, 46Ah, 2355Wh
Trademark / Brand (if any)	Safiery Pty Ltd
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	Meteor Battery
Additional information (if necessary may also be reported on page 2)	National Differences: EU Group Differences ☒ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62619:2022
As shown in the Test Report Ref. No. which forms part of this Certificate	S03A24040845S002 issued on 2024-09-11

This CB Test Certificate is issued by the National Certification Body

UL Solutions

☐ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
☒ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
☐ UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
☐ UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA
For full legal entity names see www.ul.com/ncbnames

Date: 2024-09-18

Signature: Thomas Wilson

Data Cabling Pin Outs

- CAN cabling Connection is standard NMEA compliant cable Isolated with no power to CAN.
- 120 Ohm Precision resistor inside Meteor Lithium.
- Any Battery can be a "master"
- CAN connection is to Victron Cerbo VE.CAN. Set baud rate at 250baud.
- A "blue" Victron CAN plug may be required if this is the only CAN connection.

Connection of multiple batteries:

- Take the Negative Plug with the M5 aviation cable and connect to the "in" of the leading battery Positive Fuse Plug in the lower connector. There is only ONE connection that fits.
- Repeat this process for multiple trains of batteries till all connected.
- Press the "Reset/On" button at the Master Battery. It will come on and then the string of connected batteries follows.
- If there is a fault in the string or a connection is not screwed in properly, the Master will flash a red light.

Remote On/Off/Reset

- Connect an M3 cable to the top connector IN of the "Master" battery.
- Pins are the connections to close with free voltage contacts to remotely turn on.

			Lithium 48V 2500Wh	Lithium 48V High Power 2000Wh	Sodium 48V 1700Wh	Lithium 36V 2400Wh	Lithium 24V 2500Wh
Cell Voltages as seen on Victron Display at Battery> Details							
Cell over-voltage	Cell over-voltage alarm	V	3.5V	3.5V	3.8V	3.5V	3.5V
	Recovery voltage	V	3.4V	3.4V	3.6V	3.4V	3.4V
	Cell over-voltage protection	V	3.75V	3.75V	3.95V	3.75V	3.75V
	Recovery voltage	V	3.6V	3.6V	3.7V	3.6V	3.6V
Cell low-voltage	Cell low voltage alarm	V	2.7V	2.7V	2.0V	2.7V	2.7V
	Recovery voltage	V	2.9V	2.9V	2.35V	2.9V	2.9V
	Cell low voltage protection	V	2.5V	2.5V	1.8V	2.5V	2.5V
	Recovery voltage	V	2.7V	2.7V	2.2V	2.7V	2.7V
Auto Cell Active Balance	Balance on voltage	Note this Voltage is between 90-95% SOC	54.4	54.4	60	54.4	54.4
	Voltage difference of Balance on mV	mV	3	3	25	3	3
	Voltage difference of Balance off mV	mV	2	2	15	2	2
Battery Voltages V							
	Low voltage charging prohibition for cell	THIS IS BMS LOCK OUT VOLTAGE	24	24	16	24	24
Battery over-volt	Battery over-volt alarm		56	56	60.8	42	28
	Recovery voltage		54	54	57.6	40.8	27
	Battery over-volt protection	Bulk Charge = 58V, 62.8, 43.6, 28.6	58.4	58.4	63	43.8	28.8

			Lithium 48V 2500Wh	Lithium 48V High Power 2000Wh	Sodium 48V 1700Wh	Lithium 36V 2400Wh	Lithium 24V 2500Wh
	Recovery voltage	Float Voltage = 54, 59.2, 40.8, 27	54	54	59.2	40.8	27
Battery low-volt	Battery low-volt alarm	Cut Off Voltage Inverter = 45, 38, 36, 24	46.4	46.4	32	34.8	23.2
	Recovery voltage	Recovery Voltage Inverter = 46.5, 40, 37, 25	48	48	37.6	36	24
	Battery low-volt protection		43.2	43.2	30	3.24	21.6
	Recovery voltage		48	48	35.2	34.8	24
Charge over current	Charge over current alarm	Amps	55	150	50	55	100
	Recovery	Amps	50	145	45	50	95
	Nominal Power Max in Watts AT THE BATTERY	Watts	2,500W	7,250W	2,500W	2,000W	2,500W
	Charge over current protection	Amps	60	160	60	60	110
	Delay time	Amps	10s	10s	10s	10s	10s
Discharg over current	Discharg over current alarm	Amps	55	155	50	65	105
	Recovery	Amps	50	150	45	60	103
	Discharge over current protection	Amps	60	160	60	70	110
	Delay time	Amps	10s	10s	10s	10s	10s
Peak current	Peak current	Amps	150A 30ms	300A 30ms	120A 30ms	150A 30ms	250A 30ms
	Calculated Power in Watts AT THE BATTERY	Max 30mS (in rush current)	7,500W	15,000W	7,100W	5,750W	7,000W

LED lamp sequence

1 operational light ,1 alarm light ,4 capacity indicator lights

●	●	●	●	●	●
SOC				ALARM	RUN

Capacity indication

Status		Status				Discharge			
Capacity indicator		L4●	L3●	L2●	L1●	L4●	L3●	L2●	L1●
The remaining capacity	0～25%	OFF	OFF	OFF	Flash	OFF	OFF	OFF	Solid Green
	25～50%	OFF	OFF	Flash	Solid Green	OFF	OFF	Solid Green	Solid Green
	50～75%	OFF	Flash	Solid Green	Solid Green	OFF	Solid Green	Solid Green	Solid Green
	≥75%	Flash	Solid Green	Solid Green	Solid Green	Solid Green	Solid Green	Solid Green	Solid Green
Running indicator light●		Solid Green				Flash			

Light Blink explanation

Flash Mode	ON	OFF
Flash 1	0.25s	3.75s
Flash 2	0.5s	0.5s
Flash 3	0.5s	1.5s

State indication

System state	Running state	RUN	ALM	SOC				Note
		●	●	●	●	●	●	
Shutdown	Sleep	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Standby	Normal	Flash1	OFF	OFF	OFF	OFF	OFF	Standby status
Charge	Normal	Solid Green	OFF	According to battery indicator				Highest LED flash 2
	Alarm	Solid Green	Flash2	According to battery indicator				Highest LED flash 2
	overvoltage protection	Flash1	OFF	OFF	OFF	OFF	OFF	
	Temperature, overcurrent protection	Flash1	Flash1	OFF	OFF	OFF	OFF	
Discharge	Normal	Flash3	OFF	According to battery indicator				According to battery indicator
	Alarm	Flash3	Flash3					
	Temperature, overcurrent, short circuit protection	OFF	Solid Green	OFF	OFF	OFF	OFF	Stop discharging, forced dormancy without action after 48h when the mains is offline
	Under-voltage protection	OFF	OFF	OFF	OFF	OFF	OFF	Stopping Discharge