UFLEX
RENEWABLE ENERGY

Supercapacitor Storage System

ENERGY STORAGE SYSTEM WITH GRAPHENE SUPERCAP

1.86 kWh 24V

CONFORMITY INFORMATION

IEC*2	IEC62619
Italy	CEI0-21:2022
CE	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014,
Trasport	UN38.3,MSDS
Enviroment	RoHS

Note: *1 (1) At environment temperature 25°, charge-discharge at 100A.(2) Charge limited to 100A for resident energy storage, (3) At the beginning of life
*2in testing stage, certificate will come soon.

LATEST GENERATION SUPERCAP CELLS

THE SAFEST TECHNOLOGY

VERY HIGH CYCLE LIFE

BLUETOOTH COMMUNICATION

QUICK INSTALLATION

NO MAINTENANCE REQUIRED

ENVIRONMENTAL SPECIFICATIONS

Input resistance degree	IP65
Operating humidity	0~90% RH Non-considering
Charging Temperature	0°C~+55°C
Discharge Temperature	-20°C~+60°C
Storage Conditions	SOC>30%, -20°C~+40°C, 25% ~ 95%RH, A full charge is required every two months
Transport Conditions	50% SOC,-20°C~+40°C
Max. Altitude	3000m (9843ft)

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UFLEX
RENEWABLE ENERGY

Uflex Energy Division is a specialized supplier of innovative solutions in the field of renewable energy and energy efficiency. The Energy Division has been active for over 25 years and has accumulated extensive experience in providing components and solutions for both off-grid and on-grid electricity generation plants.
We operate as a distributor for the main brands in the industry and at the same time as a manufacturer of some components that are the result of the experience gained.
We want to be a leading partner for our clients, active in every market sector, designing the best solution for their needs with them.
Over twenty-five years of activity has developed a broad and deep expertise on all possible renewable energy production solutions, and in particular on off-grid systems, both photovoltaic and micro-hydroelectric, both in Italy and worldwide, continuing the international vocation of the Ultraflex Group. These competencies have allowed us to provide solutions used in every part of the world, on all continents, including the Arctic and Antarctica, from the peaks of the mountains (Monte Rosa in the Alps) to the African deserts, to the Amazon rainforests.

UFSC24-1.86kWh

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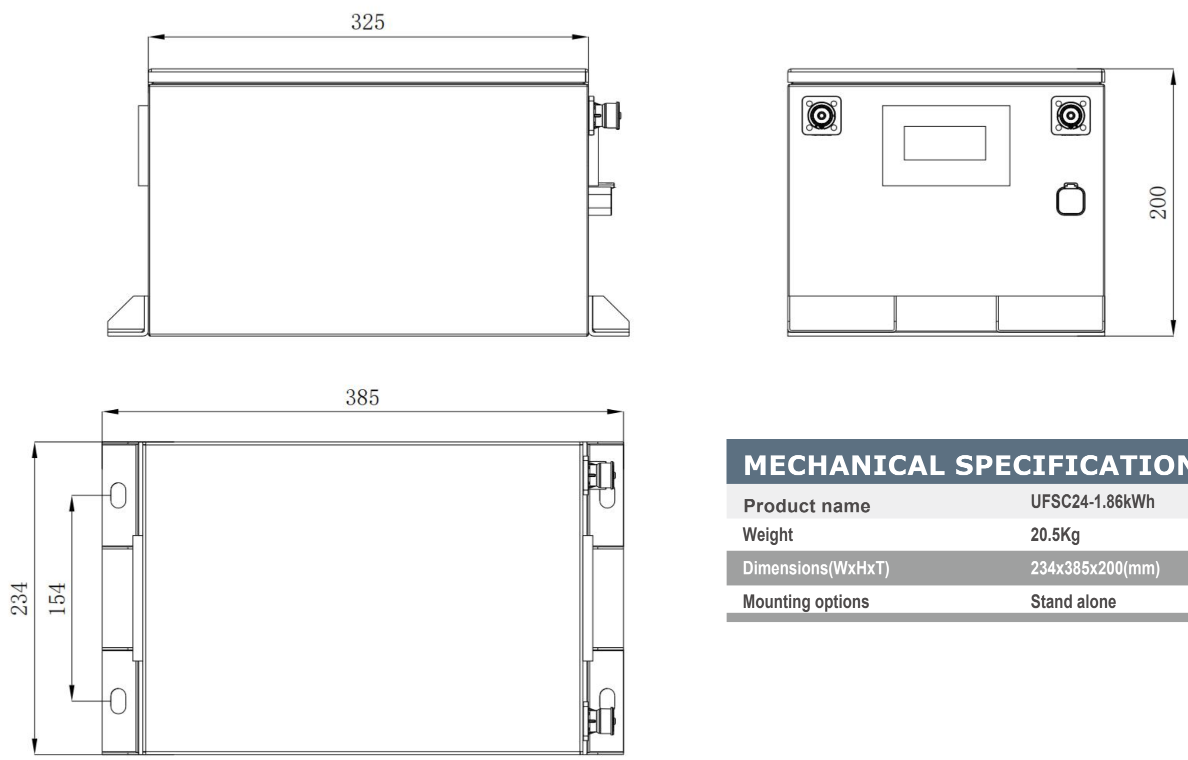
Product Name	UFSC24-1.86kWh
Accumulated energy	1.86kWh
Capacity	72Ah
Nominal Voltage	25.9V/DC
Maximum charging voltage	29V/DC
Discharge cut-off voltage	21V/DC
ESR/AC @1KHz 50% SOC	<40mΩ
Maximum continuous charging current	100A
Maximum continuous discharge current	100A
Cells Self-discharge rate	2% al mese
Round-trip efficiency*	96.8%
Expected lifespan(25°C)	20000 times
Expected duration(25°C)	15 years
Recommended depth of discharge	≤90%
Maximum depth of discharge	100%
Cooling method	Natural
Body Material	Metal & ABS plastic
Parallel connection	Possible electrical parallel
Compatible Protocol	CAN, RS485
Monitoring Data	System tension, current, temperature, soc, soh, cycle, cell tension



MECHANICAL SPECIFICATIONS

Product name	UFSC24-1.86kWh
Weight	20.5Kg
Dimensions(WxHxT)	234x385x200(mm)
Mounting options	Stand alone

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UFSC24-1.86kWh

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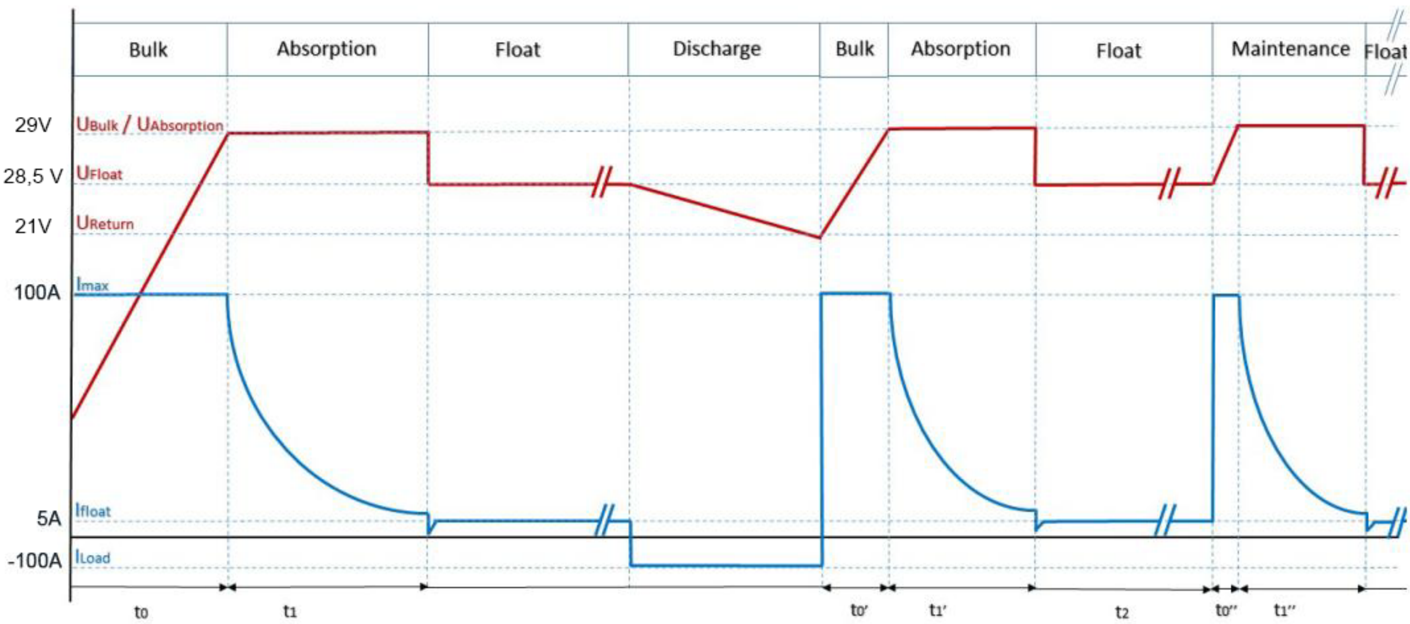
Curva di carica-scarica



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U Float value to 28.5V.

Bluetooth display function

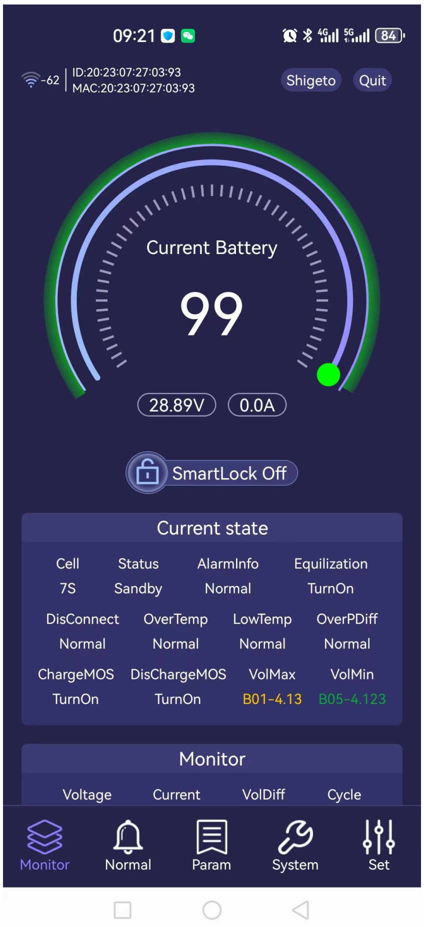
This Bluetooth APP can be used by both Android and IOS. It establishes a Bluetooth connection between the smartphone and the battery.

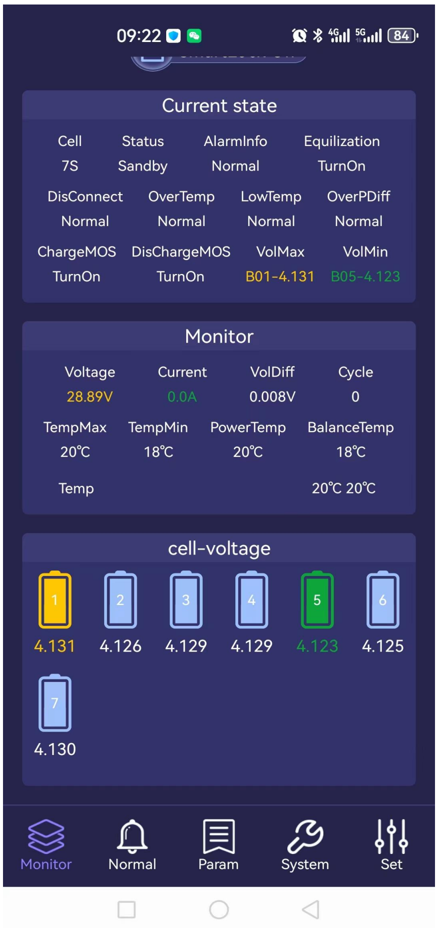
Uses Include:

- Manage the battery pack
- Collect data and display it
- Make changes to settings.

THE BLUETOOTH APPLICATION CAN ACHIEVE THE FOLLOWING FUNCTIONS:

- Display of basic battery pack data
- Changing the communication between BMS and inverter
- Setting the warning and on/off parameters
- Support single and parallel operation
- Change language from Chinese to English





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