

Supercapacitor Energy Storage

GRAPHENE SUPERCAP
ENERGY STORAGE SYSTEM

7.6kWh 48V



Bluetooth Display Function

This Bluetooth APP can be operated by both Android and IOS.
It establish a Bluetooth connection between your smart phone and the battery.

Usages includes:

managing the battery pack
gathering the data and displaying them
conducting modifications on settings.

BLUETOOTH APP CAN ACHIEVE BELOW FUNCTIONS:

Display the basic data of battery pack
Modifying the communication between BMS and inverter
Setting Alert Parameters and Switch on/off
Support Single and Parallel operation

COMPLIANCE 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,
Transport	UN38.3,MSDS
Environmental	RoHS

Remark:*1 (1)At room temperature 25 , charge-discharge at 100A.(2)Limited charge at 100A for resident energy storage, (3)At the beginning of life
*2on testing,certificate will come soon.

LAST TECHNOLOGY SUPERCAP CELLS

SAFEST TECHNOLOGY

ULTRA LONG CYCLE LIFE

EXTREME TEMPERATURE RANGE

EASY TO INSTALL

NO MAINTENANCE NEEDED

ENVIRONMENTAL SPECIFICATIONS

Ingress Rating	Indoor IP20
Operating Humidity	0~90% RH Non-condensing
Charge Temperature	0°C~+55°C
Discharge Temperature	-20°C~+60°C
Storage Conditions	SOC>30%,-20°C~+40°C,25% ~ 95%RH, One full charge needed per two months
Transport Conditions	50% SOC,-20°C~+40°C

UFLEX S.r.l. - Renewable Energy
www.uflexenergia.it

Uflex Energy Division is a specialist provider of innovative solutions in renewable energy and energy efficiency. The Energy Division has been in business for more than 25 years and has gained a great experience in supplying components and solutions for both grid disconnected (off-grid) and grid-connected (on-grid) power generation plants

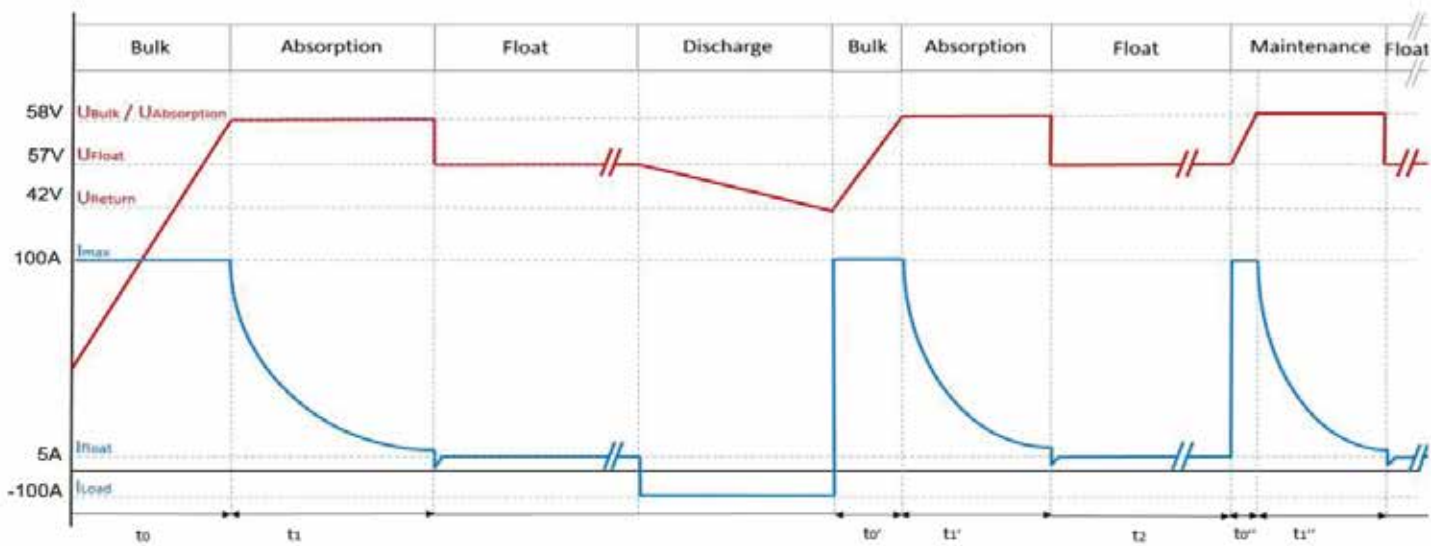
We operate as a distributor of major brands in the industry and at the same time as a manufacturer of a few components that are the result of the expertise we have gained.

We want to be a leading partner for our customers, active in every market sector, designing with them the best solution for their purposes.

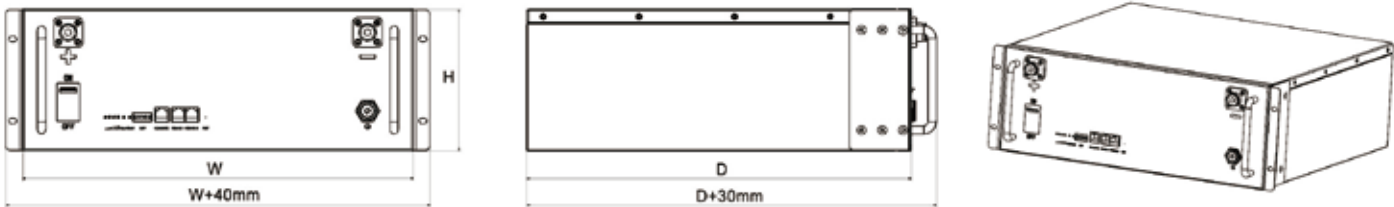
In more than twenty-five years of activity it has developed a wide and deep expertise on all possible solutions for energy production from renewable sources and in particular on off-grid systems both photovoltaic and micro wind, both in Italy and worldwide, continuing the international vocation of the Ultraflex Group. These skills have allowed us to provide solutions that are used in every part of the world, on all continents, including the Arctic and Antarctica, from mountain tops (Monte Rosa in the Alps) to African deserts, to the jungles of the Amazon.

PART NUMBER	UFSC48-7.6kWh
Energy storage	7.6kWh
Capacity	147Ah
Nominal Voltage	48V/DC
Maximum Charge Voltage	58V/DC
Discharge Cut-off Voltage	42V/DC
ESR/AC @1KHz 50% SOC	<10mΩ
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Cells Self-discharge Rate	2% per month
Round Trip Efficiency*	97.8%
Projected cycle life(25°C)	20000 times
Projected life(25°C)	15 years
Recommended Depth of Discharge	≤90%
Maximum Depth of Discharge	100%
Cooling Method	Natural
Shell Material	Metal & ABS plastic
Parallel Connection	Up to 16 sets
Compatible Protocol	CAN,RS485
Monitoring Data	System voltage,current,temperature,SOC,SOH,cycle,cell's voltage

Charging-discharging Curve



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U Float value to 57V.



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MECHANICAL SPECIFICATIONS

Part Number	UFSC48-7.6kWh
Weight	51Kg
Dimensions(WxDxH)	470x540x170(mm)
Mount Options	On rack cabinet