

## UFSC48-5.5/100

### FEATURES

- Graphene supercapacitor cells
- Safest technology
- Ultra-long cycle life
- Extreme temperature
- Highest energy transfer efficiency
- Easy to install
- Rarely maintenance



<b>Part Number</b>	<b>24878K</b>
<b>Energy storage</b>	5.5 kWh
<b>Nominal Voltage</b>	48V/DC
<b>Maximum Charge Voltage</b>	58V/DC
<b>Discharge Cut-off Voltage</b>	37.8V/DC
<b>ESR/AC @1KHz 50% SOC</b>	<10mΩ
<b>Max. Continuous Charge Current</b>	100A
<b>Max. Continuous Discharge Current</b>	100A
<b>Power/Energy</b>	0.926
<b>Round Trip Efficiency*1</b>	95%
<b>Cells Self-discharge Rate</b>	2% per month
<b>Projected Cycle Life (25°C)</b>	20,000 times
<b>Recommended Depth of Discharge</b>	≤90%
<b>Maximum Depth of Discharge</b>	100%
<b>Cooling Method</b>	Natural
<b>Shell Material</b>	Metal & ABS plastic
<b>Parallel Connection</b>	Up to 10sets
<b>Monitoring Data</b>	System voltage, current, temperature, SOC, SOH, cycle, cell's voltage

Remark: \*1 (1) At room temperature 25 °C, charge-discharge at 100A. (2) Limited charge at 100A for resident energy storage, (3) At the beginning of life.

### COMPLIANCE INFORMATION

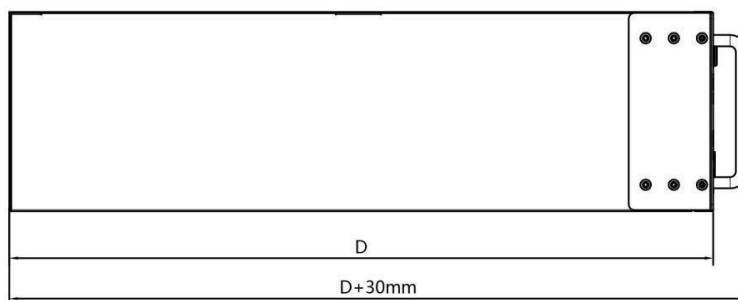
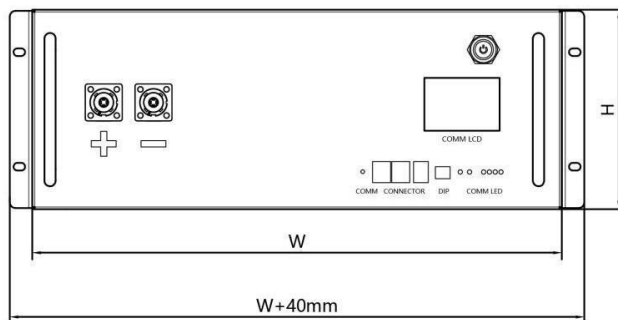
Safety	IEC62619
Transport	UN38.3, MSDS
CE	EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013
Environmental	RoHS

### ENVIRONMENTAL SPECIFICATIONS

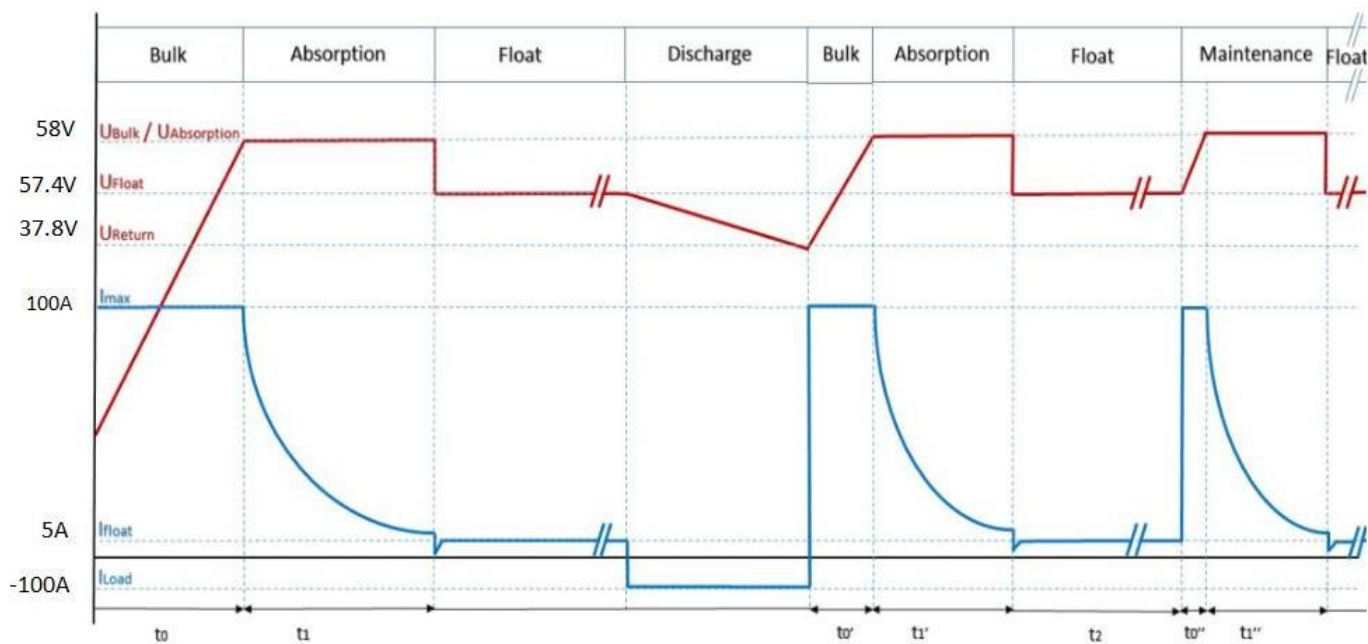
Environmental Protection	IP20
Operating Humidity	0~90% RH Non-condensing
Charge Temperature	0°C ~ +55°C
Discharge Temperature	-20°C ~ +60°C
Storage Conditions	-20°C ~ +40°C, 25% ~ 95% RH SOC>30% one full charge needed per two months

# UFLEX SUPER CAPACITOR ENERGY STORAGE MODULE

MECHANICAL SPECIFICATIONS	
Part Number	24878K
Weight	58Kg
Dimensions (W x D x H)	475 x 665 x 177(mm)
Mount Options	On floor



## CHARGING-DISCHARGING CURVE



**Note:** If the charger needs to set the floating charge voltage, it is recommended to set the UFloat value to 57.4V.