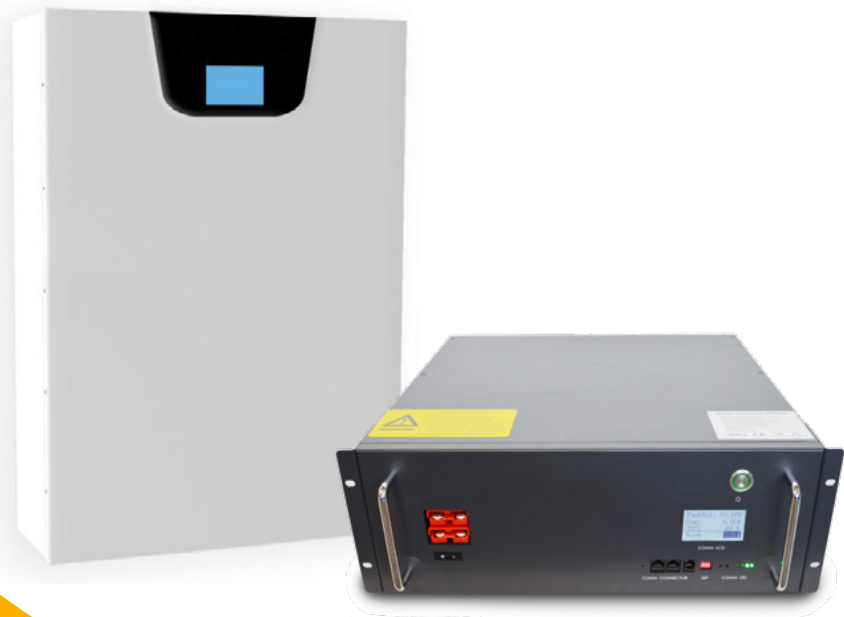


Graphene Ultracapacitors 48 V/DC



10 YEARS

WARRANTY

CE

Graphene ultracapacitor cells 3.6/5/8.5/15 kWh

- Safest technology
- Ultra long cycle life-time
- Highest energy transfer efficiency
- Easy to install
- 10 years warranty
- DOD up to 100%
- Wide temperature range
- High thermal stability

COMPLIANCE INFORMATION

- **SAFETY:** IEC62619, UL
- **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



Graphene Energy Storage Module

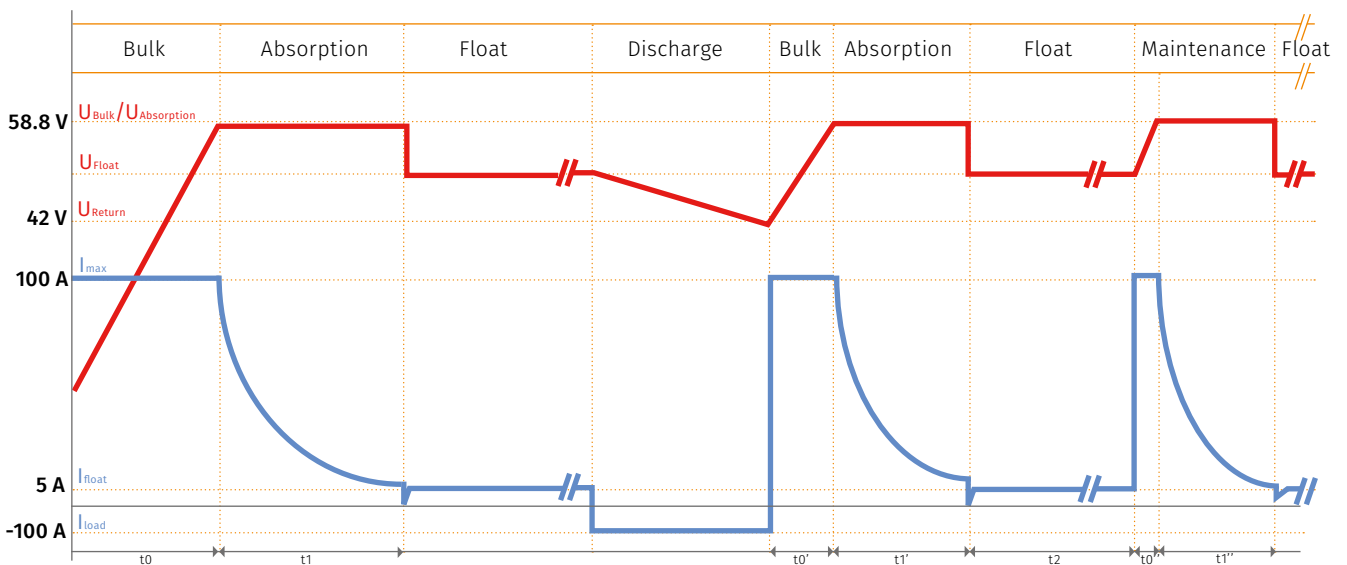
PERFORMANCE SPECIFICATIONS

ENERGY STORAGE	3.6 kWh	5.0 kWh	8.5 kWh	15 kWh
Nominal Voltage	48 V/DC			
Maximum Charge Voltage	58.8 V/DC			
Discharge Cut-off Voltage	40 V/DC	37.8 V/DC	37.8 V/DC	37.8 V/DC
ESR/AC @1KHz 50% SOC	<10mΩ	<8mΩ	<6mΩ	<5mΩ
Max. Continuous Charge Current	100 A			
Max. Continuous Discharge Current	100 A			
Peak Current	208 A			
Cooling Method	Natural			
Cells Self-discharge Rate	2% per month			
Projected Cycle Life (25 °C)	50,000 times			
Recommended Depth of Discharge	≤90%			
Maximum Depth of Discharge	100%			
Shell Material	Metal & ABS plastic			
Monitoring Data	SOC, voltage, current, temperature			
Series Connection	Not allowed			
Parallel Connection	Allowed up to 10 pieces			

MECHANICAL SPECIFICATIONS

Weight	38 kg	65 kg	88 kg	95 kg
Dimensions	516 x 625 x 177 mm	470 x 675 x 194 mm	700 x 765 x 194 mm	700 x 765 x 194 mm
Mounting Options	Wall or floor mount			

CHARGING CURVE



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U_{Float} value to 58.8V.

