

GRAPHENE SUPERCAPACITOR BATTERY CAPWALL

Capwall

REPRESENTED BY
ATD ENERGY P/L



FEATURES

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

PERFORMANCE SPECIFICATIONS	
Part Number	ATDE-EM-48V5.5K-W
Energy storage	5.59KWh
Capacity	34285F (108Ah)
Nominal Voltage	51.8V/DC
Maximum Charge Voltage	58V/DC
Discharge Cut-off Voltage	39.2V/DC
ESR/AC @1KHz 50% SOC	<10mΩ
Configuration	14S6P
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Cells Self-discharge Rate	2% per month
Projected Cycle Life (25°C)	20,000 times
Round Trip Efficiency* ¹	97.1%
Recommended Depth of Discharge	≤90%
Maximum Depth of Discharge	100%
Cooling Method	Natural
Shell Material	Metal & ABS plastic
Parallel Connection	Up to 5sets
Monitoring Data	System voltage,current, temperature,SOC,SOH,cycle,cell's voltage

COMPLIANCE INFORMATION	
Safety	UN38.3
Transport	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
Inverters options* ²	Deye, Sungrow, SMA, Growatt, Goodwe

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

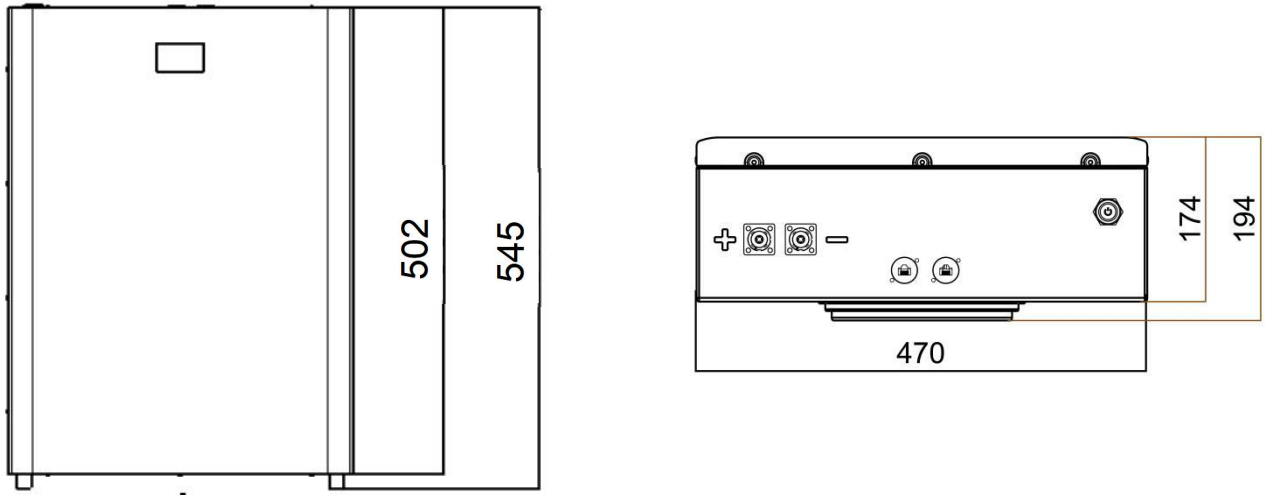
Remark:*¹ (1)At room temperature 25°C, charge-discharge less 100A.(2)Limited charge less 100A for resident energy storage, (3)At the beginning of life. *²The inverter brands options for reference,customer need to appoint inverter when place order if need to be compatible.

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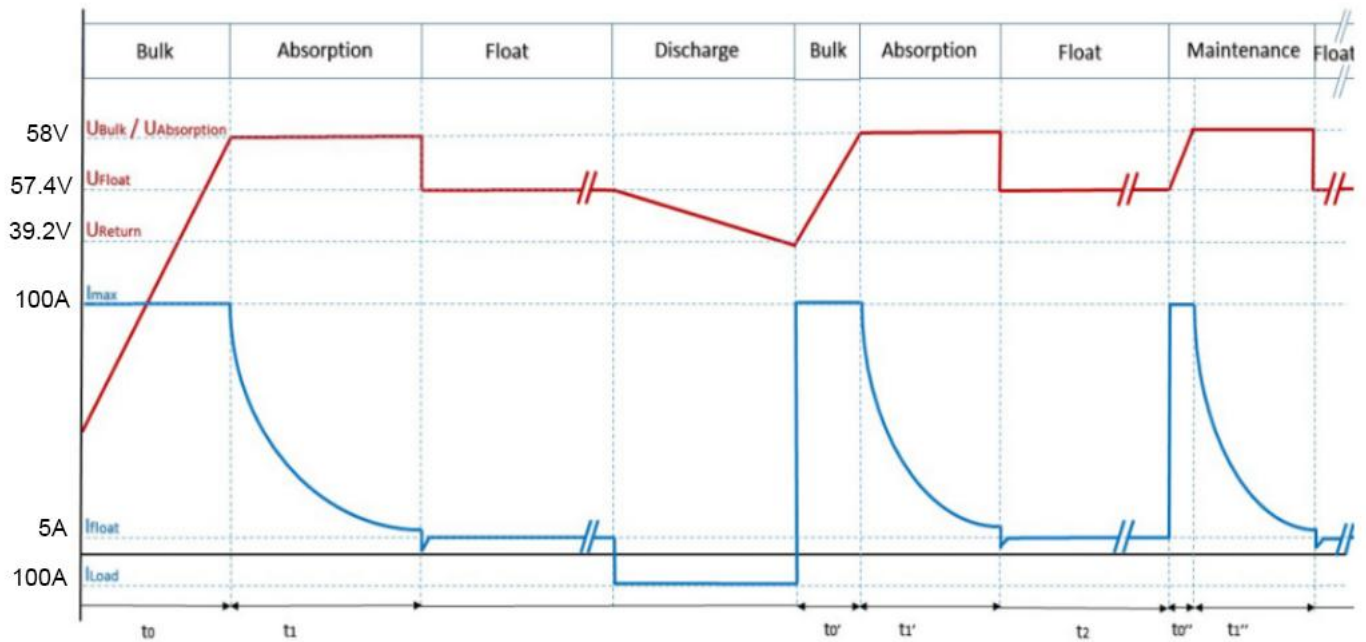
MECHANICAL SPECIFICATIONS

Part Number	ATDE-EM-48V5.5K-W
Weight	41Kg
Dimensions(WxHxT)	470x545x194(mm)
Mounting Options	Wall/floor

Dimensions and weight differ slightly for each batch. Contact ATD Energy for additional information.



CHARGING-DISCHARGING CURVE



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U_{Float} value to 57.4V.