

700V 25KWh

❖ Features:

- ❖ Graphene supercapacitor cell
- ❖ Fast rechargeable
- ❖ Long cycle life time
- ❖ Large discharge power
- ❖ Safest technology
- ❖ Rarely maintenance.

❖ Applications:

- ❖ Peak loading shaving
- ❖ Grid frequency stabilization
- ❖ Grid voltage stabilization
- ❖ Heave crane machinery
- ❖ Industry power compensation
- ❖ Charging station power supplier

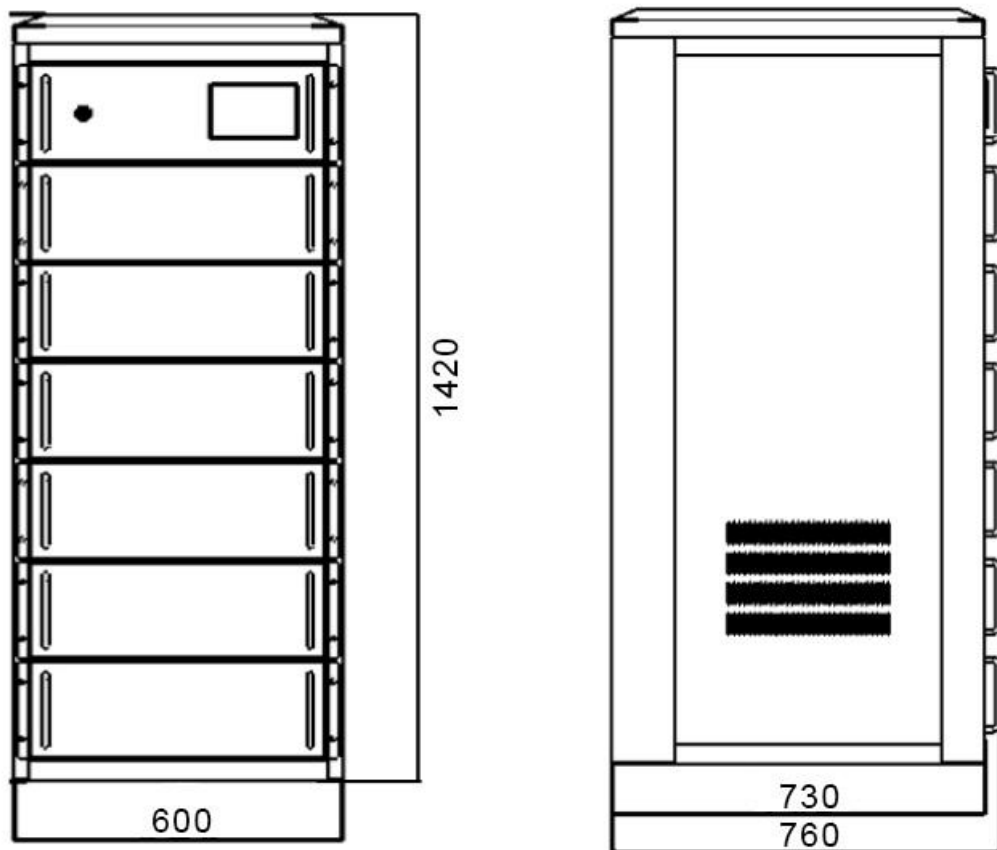
❖ General Characteristics

No.	Part Number	ATDE-EM-700V25K-R
1	Energy storage	25.3KWh
2	Nominal Capacity	36Ah
3	Nominal Voltage	702V/DC
4	Maximum Charge Voltage	831.6V/DC
5	Discharge Cut-off Voltage	554.4V/DC
6	ESR/AC @1KHz 50% SOC	<100mΩ
7	Max. Continuous Charge Current	50A
8	Max. Continuous Discharge Current	100A
9	Discharge rate	2.77C
10	Max. Continuous Output Power	70KW
11	Charge Temperature*1	0℃~+55℃
12	Discharge Temperature*2	-30℃~+60℃
13	Operating Humidity	0~90% RH Non-condensing
14	Cells Self-discharge Rate	2% per month
15	Projected Cycle Life (25℃)	20,000 times
16	Projected Calendar Life	10years
17	Recommended Depth of Discharge	≤ 90%
18	Maximum Depth of Discharge	100%
19	Monitoring Data	System voltage,current, temperature,SOC,SOH,cycle,cell's voltage
20	Terminal	Large power energy storage terminals
21	Environmental Protection	Indoor
22	Weight	412Kg
23	Cooling Method	Natural cooling
24	Shell Material	Metal
25	Parallel Connection	add controller box

Remark *1,*2, please derate the current when using at temperatures lower than 0℃

❖ Product Drawing

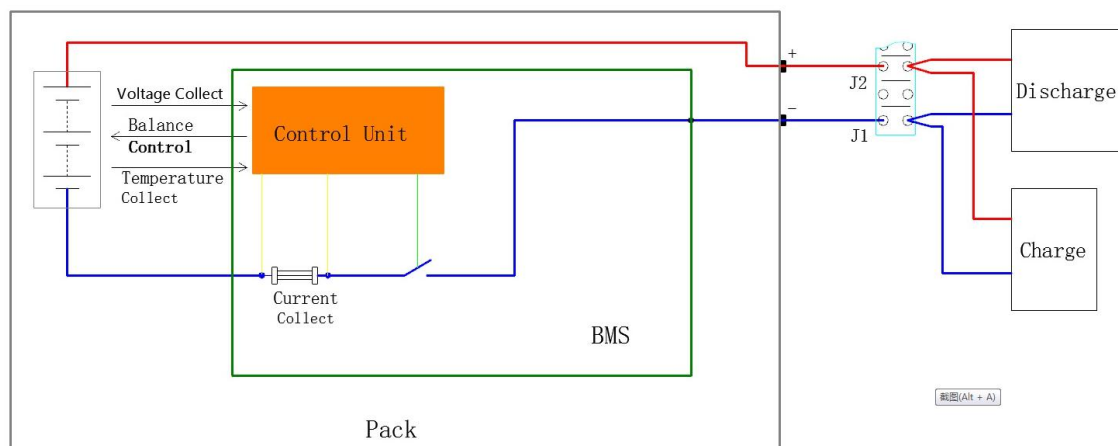
MECHANICAL SPECIFICATIONS	
Part Number	ATDE-EM-700V25K-R
Weight	412Kg
Dimensions(WxDxH)	600x760x1420(mm)
Mounting Options	Indoor
Dimensions and weight differ slightly for each batch. Contact ATD Energy for additional information.	



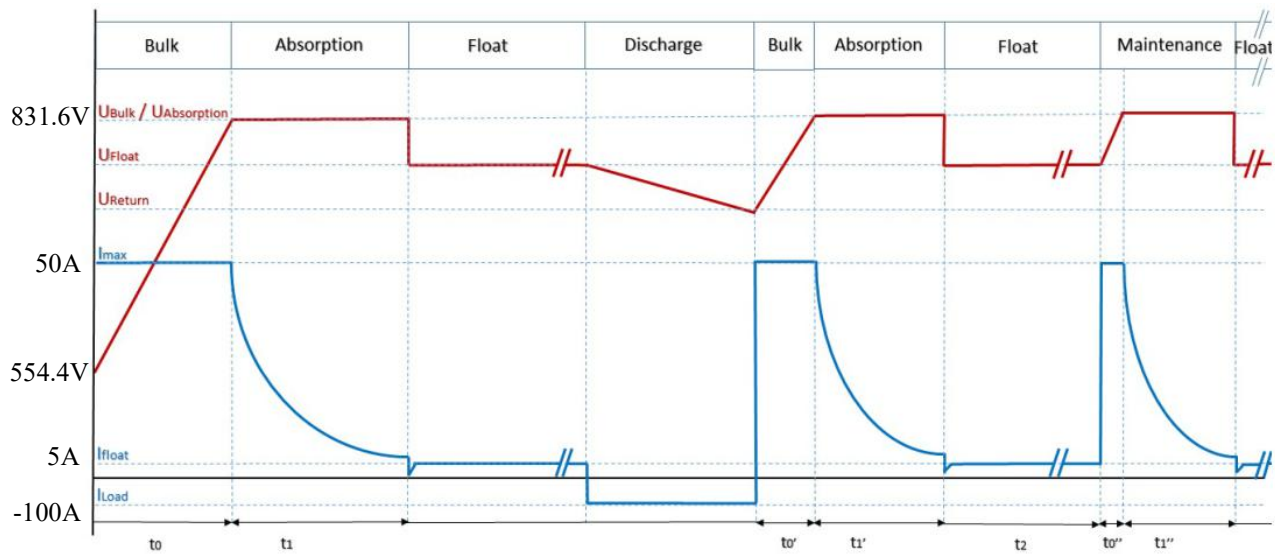
❖ BMS Electrical Diagram

The system is function modularity design.

- 1) The interface of charge and discharge is integrated.
- 2) The cell voltage and battery temperature is detected by BMS.



❖ Charging curve



Note: If the charger needs to set the floating charge voltage, it is recommended to set the U_{Float} value to 811.8V.

❖ Caution

- ❖ Place the battery out of the reach of children and infants.
- ❖ Do not place the battery in microwave ovens or other similar appliances.
- ❖ Do not remove the product label.
- ❖ Do not attempt to open or service the battery pack.
- ❖ Do not expose to temperatures above 80°C.
- ❖ Do not short-circuit the positive and negative terminals of the battery with wire or other metallic objects. Do not transport or store the battery with metallic items.
- ❖ Do not expose the battery to direct heat or flame, and do not use or store it near a fire or a location, subject to high temperatures. In addition, do not immerse or dampen the battery in water, saltwater, or any other liquid.
- ❖ Do not puncture the battery with any sharp objects, hit it with a hammering device or similar device, step on it, drop it or subject it to strong shock.
- ❖ Do not use battery if it is damaged or deformed.
- ❖ Immediately cease use of the battery if it produces strange smells or smokes or becomes abnormally hot.
- ❖ If the battery fluids leak and come into contact with an eye, do not rub the eye and immediately flush it with plenty of water before seeking medical assistance.

❖ Notes

The pictures in the file are only for reference.

We reserve the final explanations of the items in this specification. This proposal is applicable for prototype.