

GRAPHENE SUPER CAPACITOR ENERGY STORAGE MODULE

Capess

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



Part Number	ATDE-EM-48V3600-E
Energy storage	3.6KWh
Nominal Voltage	50.4V/DC
Maximum Charge Voltage	58V/DC
Discharge Cut-off Voltage	37.8V/DC
ESR/AC @1KHz 50% SOC	<15mΩ
Internal Cells Configuration	14S8P
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Power/Energy	1.38
Round Trip Efficiency* ¹	96%
Cells Self-discharge Rate	2% per month
Projected Life (25 °C)	15 years
Recommended Depth of Discharge	≤90%
Maximum Depth of Discharge	100%
Cooling Method	Natural
Shell Material	Metal & ABS plastic
Monitoring Data	System voltage,current, temperature,SOC,SOH,cycle,cell's voltage
Parallel Connection	Up to 10sets

COMPLIANCE INFORMATION

Safety* ²	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
Compatible Inverters	Options

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 at 100A.(2)Limited charge at 100A for resident energy storage, (3)At the beginning of life.

*²on testing,certificate will come soon.

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MECHANICAL SPECIFICATIONS

Part Number	GTEM-48V3600-E
Weight	42Kg
Dimensions(WxDxH)	510x537x170(mm)
Mount Options	Shelf or rack

Dimensions and weight differ slightly for each batch. Contact Green Tech for additional information.

