

About Us

Mint Energy develops energy generation and energy storage solutions to meet the ever-changing needs of modern-day consumers and businesses. Mint Energy strives to provide safe, environmentally-friendly, cost-effective, and reliable solutions.



126 KWh Rack Using 12.6 KWh Modules

Graphene-based battery systems represent a groundbreaking frontier in energy storage technology. Graphene, a single layer of carbon atoms arranged in a hexagonal lattice, boasts a unique set of properties that make it a game-changer in the battery industry. Graphene's remarkable electrical conductivity and thermal efficiency enable these systems to deliver exceptional performance. These batteries have the potential to store and discharge energy at unprecedented rates, addressing the demand for quick-charging solutions in our increasingly digital world.

One of the most compelling aspects of graphene-based battery systems is their enhanced durability and safety. Graphene's exceptional heat dissipation properties make these batteries less prone to overheating and thermal runaway, which are common issues in traditional lithium-ion batteries. This not only ensures a longer lifespan for the batteries but also significantly reduces safety risks.

- **Includes (10) 12.6 Power Rack Modules**
- **Plug and Play Design**
- **Long lasting solution**
- **Quick charge/discharge**
- **Scalable solution**
- **Safer than lithium-ion**

Contact us



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SPECIFICATION	UNIT	VALUE
Total Rack Units	-	1
Rack Space Units	-	40
Rack Space Inches	in	70
Graphene Supercapacitor Battery Bank 12.6 kVAh	-	10
Battery Banks in Series	-	1
Battery Banks in Parallel	-	10
Total Battery Banks	-	10
Total Capacitors	-	1,680
Rated Voltage	V	51.80
Max Continuous Voltage	V	58.80
Max Surge Voltage	V	59.50
Min Voltage	V	42.00
Nominal Current	A	2,400.00
Continuous Current	A	4,800.00
Peak Current (5 sec)	A	7,200.00
Maximum Charging Current	A	2,250.00
Total Cells Capacitance	f	78,701,280
Estimated VA Hours	VAh	126,000.00
Nominal Energy Rating	kVAh	126.00
Estimated Energy Storage (Watt Hours)	wh	126,000.00
Estimated Energy Storage (Amp Hours)	Ah	2,432.43
Estimated Internal Resistance	mΩ	23.21
Estimated Leakage Current	mA/h	466.667
Minimum Charge Time	Minutes	64.865
Minimum Discharge Time	Minutes	30.405
Cycle Life	-	20,000
Operating Temperature Range	°F (°C)	-4 to 140 (-20 to 60)
Storage Temperature Range	°F (°C)	-4 to 131 (-20 to 55)
Protection Class	-	IP20
Product Weight	Lbs. (kg)	636.89 (288.89)
Dimensions	in (mm)	24 x 36 x 84 (609.60 x 914.40 x 2,133.60)

RACK UNIT SPECS

168.8 kWh Rack

Lockable Rack Enclosure

Rapid Charge and Discharge Capabilities

Choice of Ventilated Mesh or Acrylic Door

Up To 13 Racks Can Be Added in Series to Increase to Grid Scale

Series Configurations Available with Custom Order

Total Series Voltage Max is 754v

Total Series Voltage Nominal is 624v

Total Series Voltage Min is 533v



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