

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.



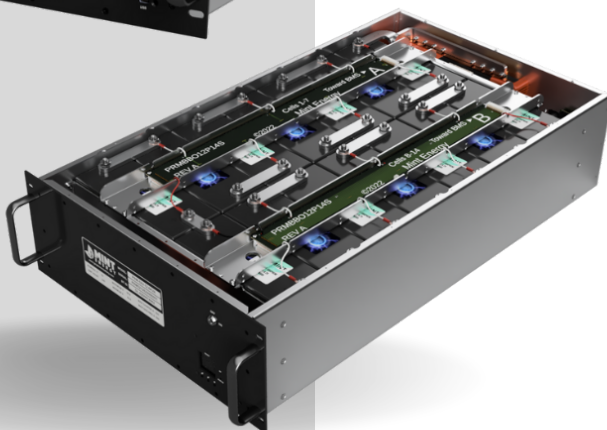
12.6 kWh Power Module

Mint Energy's Graphene Power Modules are at the forefront of energy storage technology. Leveraging graphene's high surface area allows for exceptional energy storage capacity in a compact form factor.

What sets our graphene battery modules apart is their exceptional heat dissipation capabilities. The Graphene-Based Module efficiently dissipates heat generated during charging and discharging, addressing one of the major challenges of conventional lithium-ion batteries. Our graphene batteries are safer, more efficient, and have a much longer lifespan than other types of batteries.

Unlike standard batteries which store energy chemically, The Mint Energy Graphene Supercapacitor stores energy electrostatically. The chemical reactions used to charge regular batteries work slowly and eventually cause the electrode materials to breakdown, our Supercapacitor is different. It can be recharged multiple times without wearing out.

- **Long lasting solution**
- **Quick charge/discharge**
- **Scalable solution - Full racks available**
- **Safer than lithium-ion**



Contact us



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12.6 MODULE SPECIFICATION	UNIT	VALUE
Rack Space Units	-	4
Rack Space Height	in	7"
Series Capacitors	-	14
Parallel Capacitors	-	12
Battery Banks in Parallel	-	1
Total Capacitors	-	168
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	240
Continuous Current	A	480
Peak Current (5 sec)	A	720
Maximum Charging Current	A	225
Total Cells Capacitance	f	7,870,128
Estimated VA Hours	VAh	12,600
Nominal Energy Rating	kVAh	12.60
Estimated Energy Storage (Watt Hours)	wh	12,600
Estimated Energy Storage (Amp Hours)	Ah	243.24
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	kg	75.70
Dimensions	mm	482.60 x 820.70 x 174

FEATURES

- Built-In Battery Management System (BMS)
- Built-in Protections
- Rapid Charge and Discharge Capabilities
- Constant Current/Constant Voltage Charging Pattern Similar to Lithium-Ion
- Multiple Battery Banks Can Be Used in Parallel to Increase Run-Time

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