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.

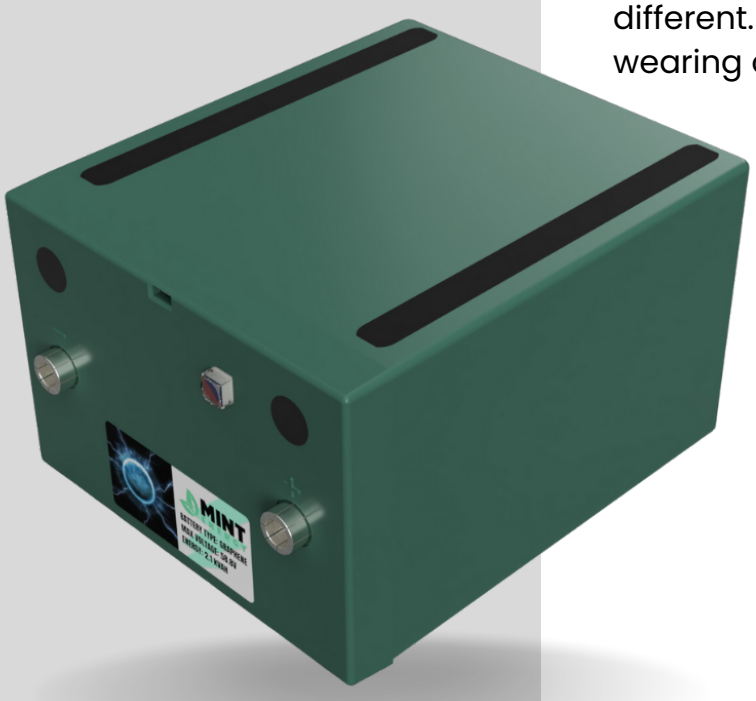
MINT ENERGY

2.1 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**
- **Compact design**
- **Quick charge/discharge**
- **Scalable solution - Full racks available**
- **Safer than lithium-ion**

Contact us

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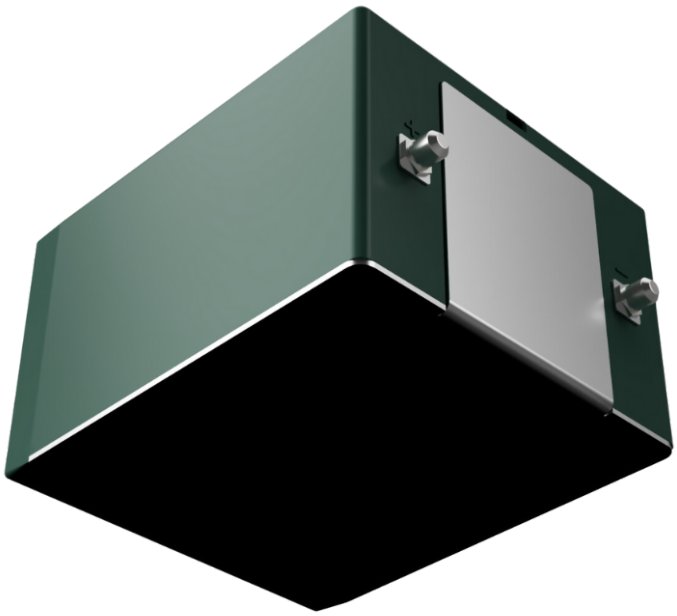
MINT ENERGY

SPECIFICATION	UNIT	VALUE
Battery Chemistry	-	Graphene
Series Capacitors	-	14
Parallel Capacitors	-	2
Total Capacitors	-	28
Nominal Voltage	V	51.80
Rated Voltage	V	50.40
Max Surge Voltage	V	59.50
Max Continuous Voltage	V	58.80
Min Voltage	V	42.00
Nominal Current	A	40.00
Continuous Current	A	80.00
Peak Current (5 sec)	A	120.00
Maximum Charging Current	A	80
Full to Empty Discharge Time at Maximum	Minutes	31.25
Empty to Full Charge Time at Maximum	Minutes	31.25
Maximum Inter-Cell Balance Discharge Current	mA	200.00
Overcharge Protection Cutoff Voltage Per Cell	V	4.25
Overcharge Protection Release Voltage Per Cell	V	4.18
Overdischarge Protection Cutoff Voltage Per Cell	V	3.80
Overdischarge Protection Release Voltage Per Cell	V	3.90
Low Temperature Cutoff Temperature	°F (°C)	5 (-15)
Low Temperature Release Temperature	°F (°C)	9 (-13)
High Temperature Cutoff Temperature	°F (°C)	131 (55)
High Temperature Release Temperature	°F (°C)	127 (53)
Total Cells Capacitance	f	1,311,688
Estimated VA Hours	VAh	2,100.00
Nominal Energy Rating	kVAh	2.10
Assumed Power Factor	-	0.80
Estimated Energy Storage (Watt Hours)	wh	1,680.00
Estimated Energy Storage (Amp Hours)	Ah	41.67
Self-Usage Power Consumption	VA	20.00
Internal Resistance	mΩ	10.50
Leakage Current	mA/h	7.778
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)	33.2 (15.1)
Dimensions	mm	289.59 x 224 x 156

FEATURES
Built-In Battery Management System (BMS)
Built-in Protections
Communications & Monitoring via CANBUS (Ethernet through Supervisory Monitor Add-on)
Rapid Charge and Discharge Capabilities
Durable Rack-Mounted Chassis
Front Side Terminals for Easy Accessibility When Mounted Against a Wall
Temperature Controlled Fans (3)
Constant Current/Constant Voltage Charging Pattern Similar to Lithium-Ion
Multiple Battery Banks Can Be Used in Parallel to Increase Run-Time
1.5" (37.5mm) OLED Color Display
Field/Remote Updatable Firmware and Configuration



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