

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



+1 949 432-9091



sales@mintenergy.com



895 Dove Street Suite 300
Newport Beach, CA 92660 USA



www.mintenergy.com



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	588,000
Total Capacitance	f	3,000.00
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	in (mm)	7 x 19 x 26 (178 x 483 x 660)

FEATURES

Lockable Rack Enclosure

Rapid Charge and Discharge Capabilities

Choice of Ventilated Mesh or Acrylic Door

Up To 10 Battery Banks Per Rack Can Be Used in Parallel to Increase Run-Time

Up To 10 Racks Can Be Chained to Operate in Parallel Series Configurations Available with Custom Order



Contact us



+1 949 432-9091



sales@mintenergy.com



895 Dove Street Suite 300
Newport Beach, CA 92660 USA



www.mintenergy.com