

ME Modular Rack

Known for its exceptional flexibility, electrical conductivity, and mechanical strength, graphene allows for fast charging, increased capacity, and extended battery life span. Graphene is the strongest material ever discovered, with an ultimate tensile strength of 130,000,000,000 Pascals. Unlike lithium-ion and other types of batteries, graphene does not lose its ability to charge over time. Since graphene is composed entirely of carbon, it's 100% biodegradable. This makes graphene an environmentally-friendly option.

When used as a power source for cell towers or data centers, graphene provides a superior alternative to other types of batteries.

- Allows for Unlimited Charges
- Charges & Discharges Faster than Lithium-ion or Lead Acid Batteries
- 100% Capacity Possible – Charge & Discharge
- Environmentally Responsible – 95% Recyclable
- Long Life Span – 60 Years
- Solid State Battery – No Liquid
- Costs Less Than Other Solutions
- Can Be Used in Freezing Temperatures
- Scalable Solution



MINT
ENERGY

www.mintenergy.com

ME Modular Rack

SPECIFICATIONS

Total Rack Units	1	Estimated Internal Resistance	23.21m Ω
Rack Space Units	40	Estimated Leakage Current	466.667mA/h
Rack Space Inches	70	Minimum Charge Time	64.865 minutes
Graphene Supercapacitor Battery Bank 12.6 KkVAh	10	Minimum Discharge Time	30.405 minutes
Battery Banks in Series	1	Cycle Life	20,000
Battery Banks in Parallel	10	Min Operating Temperature	-20° C
Total Battery Banks	10	Max Operating Temperature	60° C
Total Capacitors	1,680	Min Storage Temperature	-20° C
Rated Voltage	51.80V	Max Storage Temperature	55° C
Max Continuous Voltage	58.80V	Protection Class	IP20
Max Surge Voltage	59.50V	Product Weight	288.89kg
Min Voltage	42.00V	Dimensions	609.60mm
Nominal Current	2,400A		914.40mm
Continuous Current	4,800A		2,133.60mm
Peak Current (5 sec)	7,200A		
Maximum Charging Current	2,250A		
Total Cells Capacitance	35,280,000f		
Total Capacitance	210,000f		
Estimated VA Hours	126,000VAh		
Nominal Energy Rating	126.00kVAh		
Estimated Energy Storage (Watt Hours)	126,000Wh		
Estimated Energy Storage (Amp Hours)	2,432.43Ah		

FEATURES

- Lockable Rack Enclosure
- Rapid Charge and Discharge Capabilities
- Unlimited Battery Racks Can Be Used in Parallel
- Battery Management System



MINT
ENERGY

www.mintenergy.com

DISCLAIMER

All specification subject to change without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in data sheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Mint Energy's terms and conditions of purchase, including, but not limited to the warranty expressed wherein.