

# ME 12.6 kVAh Battery Bank – PRM4U

Mint Energy's Graphene Battery Bank is the smart choice for energy storage. Unlike other systems, Mint Energy's solution provides long-lasting power even in extreme temperatures and conditions. Smart features enable complete control over power distribution.

- Operates in High Temperatures
- Long Life Span
- 20,000 - 43,000 Cycle Count
- Low Cost Solution
- Low Maintenance System
- High Energy Density
- Quick Charge
- 100% Capacity Possible
- Integrates With Any Source of Power
- Environmentally Responsible
- Lower Fire Risk Than Other Solutions
- Does Not Produce Toxic Fumes While Charging
- Durable Case
- Unlimited Scalability



**MINT**  
ENERGY

[www.mintenergy.com](http://www.mintenergy.com)

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## UNIT SPECIFICATIONS

Total Capacitance	18,000.01f
Rack Space Units	4
Rack Space Height	7"
Series Capacitors	14
Parallel Capacitors	12
Battery Banks in Parallel	1
Total Capacitors	168
Rated Voltage	51.80V
Max Surge Voltage	59.50V
Max Continuous Voltage	58.80V
Min Voltage	42V
Nominal Current	240A
Continuous Current	480A
Peak current (5 Sec)	720A
Maximum Charging Current	225A
Total Cells Capacitance	3,528,000f
Estimated VA Hours	12,600VAh
Nominal Energy Rating	12.60kVAh
Estimated Energy Storage (Watt Hours)	12,600wh
Estimated Energy Storage (Amp Hours)	243.24Ah
Estimated Internal Resistance	1.75mΩ
Estimated Leakage Current	46.667mA/h
Cycle Life	20,000
Minimum Operating Temperature	-4 (-20) °F (°C)
Maximum Operating Temperature	140 (60) °F (°C)
Minimum Storage Temperature	-4 (-20) °F (°C)
Maximum Storage Temperature	131 (55) °F (°C)

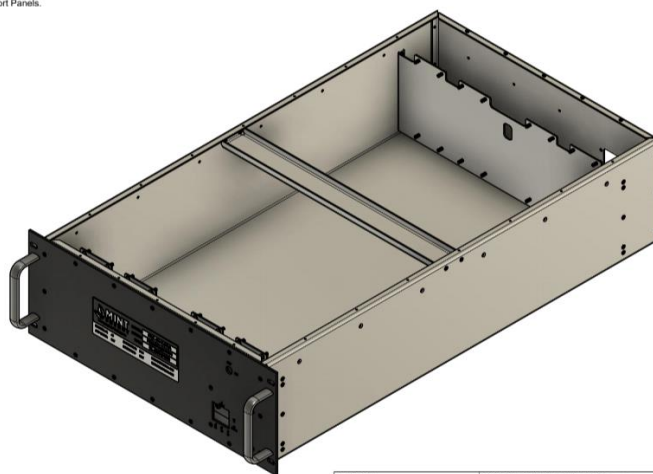
Protection Class	IP20
Product Weight	75.70 kg
Dimensions	482.60 x 820.70 x 174mm

Material: 6062 Aluminum  
 Front Panel: 0.125" (3mm)  
 Everything Else: 0.080" (2mm)  
 Finish:  
 Front Panel: Matte Black Powder Coat  
 Everything Else: Unfinished  
 Hardware and Handles are shown here but are not expected to be included in the Case Quote.



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Top Panel has been removed in this view to show the interior layout and Support Panels.



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## FEATURES

- Built-In Battery Management System (BMS)
- Built-In Protections
- Communication and Monitoring via CANBUS
- Rapid Charge/Discharge Capabilities
- Rugged Aluminum Case
- Constant Current / Constant Voltage – Similar to Lithium-Ion
- Multiple Battery Packs Can Be Used in Parallel



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## 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.