

# + 86V / 5.1kWh ENERGY BATTERY MODULE (26s3p) Nanophosphate<sup>®</sup> Lithium Ion



## KEY FEATURES AND BENEFITS

- + 20Ah Nanophosphate<sup>®</sup> cells (AMP20 $m1$ HD-A)
  - Superior cycle life from A123's patented Nanophosphate<sup>®</sup> lithium ion chemistry
  - Excellent abuse tolerance
- + Monitor and Balance Board (MBB)
  - Continuously measures cell voltages and temperatures
  - Integrated balance circuits that enable equalization of SOC between cell groups
  - Cell overvoltage protection
  - Communicates status via CANBUS
- + Robust, Efficient Design
  - Modular, scalable architecture
  - Compatible with vertical or horizontal mounting
  - Laser welded internal connections for low electrical resistance and high vibration tolerance
  - Integrated module-level fusing
  - Integral aluminum heat sinks with fin face cooling; compatible with liquid or air cooling systems
  - External cooling often not required in EV applications



## PRODUCT SPECIFICATIONS

Part Number	520839-XXX
Cell Type	20Ah (AMP20 $m1$ HD-A)
Configuration (Series/ Parallel)	26s3p
Total Cells	78
Energy – 100% DOD, Nominal (kWh)	5.1
EV Energy – 80% DOD, Nominal (kWh)	4.1
Capacity, Nominal (Ah)	59
Voltage, Maximum (V)	93.6
Voltage, Nominal (V)	85.8
Voltage, Minimum (V)	65.0
Operating Temperature (°C)	-30 to +55
Storage Temperature (°C)	-40 to +60
Mass (kg)	44
Dimensions (mm)	660 x 243 x 167
Orientation	Vertical or Horizontal
UN 38.3 Transportation Certificate	Yes

## APPLICATIONS

- + EV and PHEV Commercial Vehicles
- + EV and PHEV Passenger Vehicles
- + Auxiliary Power