MonoLith™ Battery Pack System

Motorsport Pack
Turn-Key Pack Compliant for fSAE Competition
Starting at $19,700

Electrical Specifications

Energy Capacity [kWh]	5.8
Charge Capacity [Ah]	16.8
Voltage (max) [VDC]	403
Current (max) [A]	160

Mechanical Specifications

Approximate Mass [kg]	64
Energy Density [Wh/kg]	90
Volumetric Density [Wh/L]	144

H= 170mm

W= 555mm

L= 584mm

Key Features

Constructed with (4) 100V Segments per FSAE Regulation

Maintenance Plugs

LED Status Light

>20% of Cell Temperatures Monitored

Configurable Digital BMS

J1772 Protocol Compatibility

Internally Integrated Contactors and Precharge Circuit

Optical Leak Detection

Wire-Bonded Cells

Redundant, Pack-Level Fusing

Manual Service Disconnect and HVIL

Discharge Temperature Range	-20°C ~ 55°C
Charge Temperature Range	0°C ~ 50°C
Ingress Protection Rating	IP67
Recommended Coolant Medium	Low-Conductivity Glycol
Cathode Material	Nickel Manganese Cobalt Oxide (Molicel P42A)
Cell Safety Compliance	UL 1642, IEC 62133, UN 38.3
BMS Functional Safety Compliance	ISO 26262

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