

VANGUARD[®]

5kWh Lithium-Ion Battery Packs

Designed to integrate seamlessly. Designed to perform.

Expandable

- > Packs can be combined in parallel for additional capacity

Increased Uptime

- > Up to 2000 cycle life

Operational Confidence

- > Integrated Battery Management System

Compatible

- > Two customizable CANbus networks allowing for integration with legacy systems

Easy Troubleshoot

- > CANbus diagnostics opportunities

Application Opportunities

(but not limited to)



Floor Care



Construction Vehicle



Lawn and Garden



Utility Vehicle



BATTERY TECHNICAL SPECIFICATIONS



	STANDARD	OPTIONAL
POWER	100A / 5kW continuous 1 hour run time at rated power (5kW), longer at lower power levels	200A / 10kW 30 minutes runtime per pack at optional rated power
CAPACITY	50Ah – 100Ah 5kWh Parallel capable up to 4 batteries	50Ah – 120Ah 2.5kWh – 5kWh Parallel capable up to 16 batteries
CHARGE	6 Hours	As fast as 1.5 hours
COMMUNICATION	CANbus J1939 29 bit - Diagnostics - Battery state of health - Odometer / usage tracker - Battery state of charge CAN boot loader	CANbus J1939 11 bit CAN open
SAFETY	Single cell fuse Dual contactors BMS - Temperature management - Over current protection - Over / under charge protection - Short circuit protection Integrated smart paralleling	
ENVIRONMENT	IP66 + pressure wash ESD	IP67
COMPLIANCE	UN38.3	UL2271 IEC METI
VOLTAGE	48V Nominal	
PEAK POWER	15kW for 10 seconds	25kW for 1 second
OPERATING TEMP RANGE	-30°C to 60°C discharge 0°C to 50°C charge	-20°C to 50° C charge with optional pack heater
DIMENSIONS	L 57cm / W 27cm / H 36cm	
WEIGHT	45kg	

VANGUARD

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