

VANGUARD[®]

Leading a Revolution in Power.

Lithium Batteries

The next generation of power with progressive innovations, industry expertise, and an unwavering commitment to our customers.

Efficient

- > Packs can be combined in parallel for additional capacity

Increased Uptime

- > Up to 2000 cycle life

Operational Confidence

- > Integrated Battery Management System

Flexibility

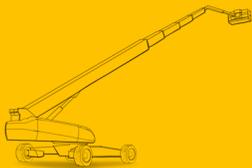
- > 2 customizable CANbus networks allowing for integration with legacy systems

Easy trouble shooting

- > CANbus diagnostics opportunities

Application Opportunities

(but not limited to)



Aerial Man Lift



Floor Care



Fork Lift



Lawn and Garden



Construction Vehicle



Utility Vehicle



BATTERY TECHNICAL SPECIFICATIONS



TECHNICAL SPECS

	48v 5kWh Battery	48v 10kWh Battery
NOMINAL VOLTAGE	50.4V	50.4V
TOP VOLTAGE	57.4V	57.4V
CUTOFF VOLTAGE	37.5V	37.5V
CAPACITY AT MAX DISCHARGE (Ah/kWh)	90Ah / 4.5kWh	180Ah / 9.0kWh
NOMINAL CAPACITY (Ah/kWh)	100Ah / 5kWh	200Ah / 10kWh
COMMUNICATION PROTOCOLS	CAN J1939 (29-bit) Plus flexible secondary CAN interface	
DISCHARGE TEMPERATURE RANGE	-40 to + 60°C	-40 to + 60°C
STORAGE TEMPERATURE RANGE	-40 to + 60°C	-40 to + 60°C
CHARGING TEMPERATURE RANGE	-10 to + 50°C	-10 to + 50°C
PARALLEL CAPABLE	Yes, up to 10 batteries	Yes, up to 10 batteries
DURABILITY HOURS/CYCLES	Up to 2000	Up to 2000
DIMENSIONS	56cm x 26cm x 36cm	56cm x 47cm x 36cm
WEIGHT	45kg	90kg
IPX RATING	IP66 + Pressure Wash	IP66 + Pressure Wash

CHARGING SYSTEM

OUTPUT POWER	1050W	1050W
INPUT POWER	120V, 60Hz / 220, 50Hz	120V, 60Hz / 220, 50Hz
REQUIRED CHARGE TIME	6 hours	12 Hours
ON-BOARD OR STAND ALONE	Either	Either

SAFETY & COMPLIANCE

CELL SAFETY CERTIFICATION	UL 1642
SHIPPING CERTIFICATION	UN 38.3
PACK COMPLIANCE & PERFORMANCE	UL/IEC
ENVIRONMENTAL COMPLIANCE	REACH and battery directive (2006/66/EC)
EMC/EMI COMPLIANCE	Meets FCC title 47 CFR 15 Class B & CISPR 22-10

VANGUARD

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