

VANGUARD®

3.8kWh Lithium-Ion Battery Packs

Designed to integrate seamlessly. Designed to perform.

Increased Uptime

- > Up to 2000-cycle life

Durability

- > Aluminum Diecast enclosure for ultimate protection from wear and tear

Operational Confidence

- > Integrated Battery Management System

Easy Integration

- > Dual CANbus communication protocol allows OEMs to communicate with the battery's J1939 (automotive standard) CANbus

Easy Troubleshoot

- > CANbus diagnostics opportunities

Industry-Leading Warranty*

- > Robust three year commercial limited warranty



Now Powering Club Car® Tempo
Lithium-Ion Golf Cars

BATTERY TECHNICAL SPECIFICATIONS



TECHNICAL SPECS

CONFIGURATION	Lithium-Ion, 14S
NOMINAL VOLTAGE (V)	51.6
TOP VOLTAGE (V) PER IEC 61960	58.8
TOP VOLTAGE (V) FOR EV-APPLICATIONS	58.1
CUTOFF VOLTAGE (V)	35.0
NOMINAL CAPACITY PER IEC 61960	73.8 Ah / 3.80 kWh
COMMUNICATION PROTOCOLS	J1939 (29-bit), CAN Open (11-bit)
DISCHARGE TEMPERATURE RANGE	-20°C to +60°C
STORAGE TEMPERATURE RANGE (1 MONTH / 1 YEAR)	-20° to +60°C / -20°C to +25°C
CHARGING TEMPERATURE RANGE	-10° to +50°C
MARKETED DURABILITY HOURS/CYCLES	2000 cycles to 80% initial capacity
RATED CHARGING CURRENT (A)	37.5
RATE DISCHARGING CURRENT (A)	75
PARALLEL CAPABLE	Yes, up to 10 batteries
STANDARD CHARGE TIME	< 4.5 Hours
VANGUARD CHARGER OUTPUT POWER (W)	1050 W
ON-BOARD OR STAND ALONE	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 25

VANGUARD

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