# MARGUARD

## 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**

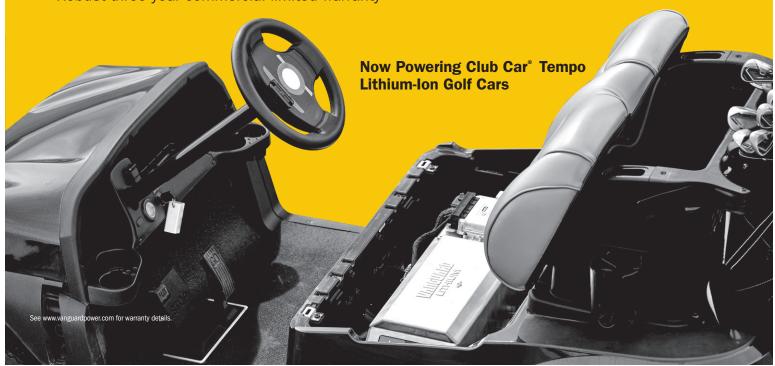
> CANbus diagnostics opportunities

#### **Industry-Leading Warranty**\*

> Robust three year commercial limited warranty







### **BATTERY TECHNICAL SPECIFICATIONS**







#### **TECHNICAL SPECS**

CONFIGURATION	Lithium-lon, 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	-30°C to +70°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
SAFTEY & COMPLIANCE	
CELL SAFETY CERTIFICATION	UL 1642
SHIPPING CERTIFICATION	UN 38.3
PACK COMPLIANCE & PERFORMANCE	UL/IEC
CONTRACTOR OF THE PROPERTY OF	



REACH and battery directive (2006/66/EC)

Meets FCC title 47 CFR 15 Class B & CISPR 22-10

**BRIGGS&STRATTON**Milwaukee, WI 53201-0702 USA
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