

48V 3C

SEMI-SOLID STATE LITHIUM IRON PHOSPHATE

The battery used by the America's Cup.

Semi-solid state technology with 3C power: 150 A from a 20 kg pack. Stack them, strap them together, and switch every pack from the helm or over CAN.

PERFECT FOR ELECTRIC TENDERS



**38TH
AMERICA'S CUP
NAPLES, ITALY**



OFFICIAL BATTERY

High power. Under your control.

3C high power

150 A continuous from every 48 V pack. Add packs in parallel for 10 to 30 kW tender motors.

Switchable MOSFETs

Turn the charge or discharge MOSFETs of any pack on or off over CAN. Remote on and off from the helm.

Stack and strap

Packs lie flat or stand on edge, lock into each other, and join with power straps down the side.

150 A

Continuous at 3C,
160 A for 2 s

2,788

Wh per pack,
53.4 Ah at 48 V

20 kg

Per pack,
420 × 252 × 150 mm

6,000

Cycles at 80 percent
depth, 0.2C discharge

Semi-solid state lithium iron phosphate (LFP) cells. IP67. Output varies with temperature, installation and battery state.

Made for electric tenders.

A tender needs high power in a small, light space, and it needs charging wherever the mother ship is. The 48V 3C delivers full power from a compact stack, charges from the mother ship's own 12 or 24 V system, and every pack can be switched from the helm.

SIZE YOUR TENDER

Packs for each outboard or jet power.

MOTOR	LIGHTEST	MORE RANGE
10 kW	2 packs, 42 kg	8.4 kWh, 63 kg
15 kW	2 packs, 42 kg	11.3 kWh, 84 kg
20 kW	3 packs, 63 kg	14.0 kWh, 105 kg
25 kW	3 packs, 63 kg	16.7 kWh, 126 kg
30 kW	4 packs, 84 kg	22.6 kWh, 168 kg

CHARGE IT THREE WAYS

On the davit, in the water or at the dock.

MOTHER SHIP 12 OR 24 V

Cross charge, both ways
1,500 or 3,000 W

SHORE CHARGER

Fast 48 V DC charging
Charge limits set over CAN

BMG ON THE ENGINE

Engine-driven 48 V charging
Up to 10 kW

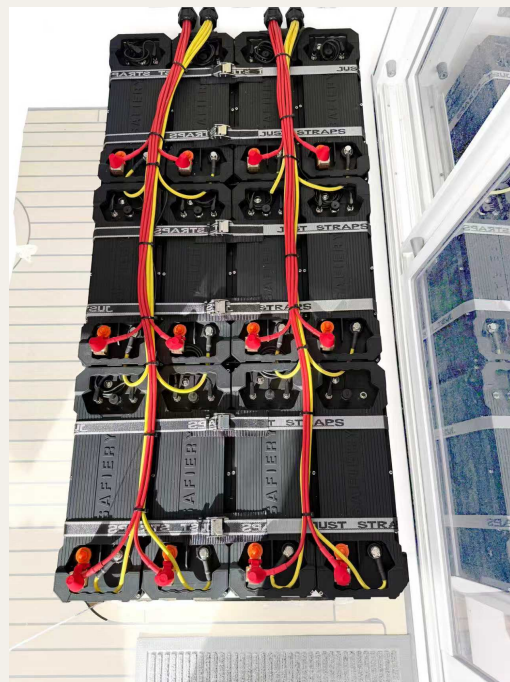
TENDER
48 V BANK

Cross charging is low voltage and safe, and can be done with the tender in the water.

Sizing is a guide. Final pack count is confirmed for each motor, hull and range.

Control from the helm or over CAN.

MOSFET control	Charge or discharge MOSFETs switched on or off over CAN, pack by pack.
Remote on and off	Push button with LED on every pack. One remote button at the helm switches all connected packs.
Victron ready	CAN BMS with Victron protocols. NMEA 2000 and a wired stop charge output.
One app	The Bluetooth app shows every connected battery, with cell temperatures.
Parallel	Up to 20 packs in one bank.
Temperature	Charge 0 to 55 °C, discharge -20 to 65 °C. Optional heater.
Tested cells	Nail penetration, 200 kN crush, 130 °C heat and extended short circuit.



45 KWH STACKED EITHER SIDE OF AN ENGINE ROOM

Stack and strap.

No battery boxes, no cable runs.

Each pack lies flat at 150 mm high, or stands 250 mm high and locks into the next. Positive and negative power straps join the packs down the side.

Safiery and Quasar are trademarks of Safiery. Design patent registered for interlocking case and integrated straps.

Certifications IEC 62619, UN38.3, CE with EMC certification.

Warranty 5 years on CAN control, 3 years with no CAN control.

Let's power your tender.

Bring your motor size, your hull and the range you need.

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