



## Juice Professional Series Lithium Ion Batteries

With a near decade of experience in Lithium Ion battery technology Enertec Marine has partnered with a leading NZ University to produce a range of state of art Lithium Ion battery packs suitable for marine, mobile and land based applications.

Juice Professional Series Lithium Ion batteries include an integrated Battery Management System (BMS), bi-directional active cell balancing, series battery balancing, battery monitoring and NMEA output to provide a complete Lithium battery solution that can share battery information to 3rd party NMEA compatible products such as digital switching systems.

Extremely compact and lightweight Juice Lithium Ion batteries have completely independent control over load and charge sources. This makes installation with engine alternators far simpler and safer, whilst also ensuring that the possibility of a vessel going black ship due to a charging issues does not occur.

Juice Lithium Ion batteries offer significant advantages over conventional lead acid batteries including rapid recharge, extremely long life and superior electrical system performance. Furthermore each battery has its own integrated relays for automatic starting and stopping of generators based on battery capacity, or for load shedding at peak energy times. A unique test function also allows a complete functionality test of the Juice battery system at any time.

With the bi-directional active cell balancing and integrated series balancer, connecting batteries in parallel for larger battery bank capacities is simple, while for higher voltage applications, such as electric propulsion, the series balancer ensures all series connected batteries remain balanced even under the heaviest demands.

To monitor your Juice Professional Series Lithium Ion batteries each system requires the Juice Lithium Ion System Monitor, which connected by JuiceBus, provides all battery monitoring information including state of charge, as well as any relevant system information or alarms for easy visibility and action.

## Benefits:

- Extremely compact and lightweight
- Rapid recharging and discharging
- Exceptionally long life
- Integrated Bi-directional cell balancing and series balancing
- Complete battery monitor including state of charge
- Auto generator start/ stop relay
- Output and Input relays for system integration
- NMEA 2000 output
- Unique system test function



# JUICE™

## LITHIUM ION BATTERY

by enertec



**JUICE GENERATION 2 SERIES**

**JUICE PROFESSIONAL SERIES**

**JUICE PROFESSIONAL SERIES**

Model	JLI-12100G2	JLI-12200PRO	JLI-24200PRO
Nominal Voltage	13.25V	13.25V	26.5V
Nominal Capacity	100 a/hrs	200 a/hrs	200 a/hrs
Nominal Power	1280Wh	2560Wh	5120Wh
Chemistry	Lithium Iron Phosphate		
Max Charge	100A	200A	200A
Max discharge	300A	500A	500A
Cycle Life to 80% DOD	≥ 3000	≥ 3000	≥ 3000
Cell Balancing	Integrated Bi-Directional Active balancing		
BMS	Yes, Integrated		
Battery Monitoring	Yes, Integrated		
Battery Load Relay	Yes, Integrated to control external contactor		
Charge Relay	Yes, Integrated		
Genset Start Relay	Yes, Integrated		
Output Relays	Yes - 2	Yes - 2	Yes - 2
Input Relays	No	Yes - 3	Yes - 3
Parallel Connection	Yes	Yes	Yes
Series Connection	No	Yes	Yes
JuiceBus	No	Yes	Yes
NMEA 2000 Output	No	Yes	Yes
Display	Juice Gen 2 display	Juice System Monitor	Juice System Monitor
Battery Terminal	M10	M10	M10
Dimensions (LxWxH)	300 x 160 x 275mm	326 x 201 x 335mm	600 x 201 x 335mm
Weight	16kg	26.5kg	51kg