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1.1 KWH LITHIUM-ION BATTERY PACK WITH CHARGING DOCK

A High-Performance Battery Pack designed for Aviation, Marine and Stationary Storage.

The Stafl Systems 1.1 kWh Lithium-Ion Battery Pack was designed for demanding applications using the latest cell technology from our exclusive partnership with AER CELL[™]. With an energy density of **160.5 Wh/kg** and a volumetric energy density of **169.0 Wh/L**, the 1.1 kWh Lithium-Ion Battery Pack provides exceptional energy density in a small package.

This battery pack comes complete with a charging dock and mating connector for immediate implementation into your application.





Charged by Delta-Q gives confidence that a particular battery and charger combination will provide your products with best-in-class performance, prolonged battery life, and maximum up-time.



BAT1400 1.1 kWh Battery Pack



Description

The BAT1400 1.1 kWh Lithium-Ion Battery Pack was developed for electric aviation customers and uses the AER CELL[™] 4 Ah pouch cell. This cell was developed by AER CELL[™] Technologies in partnership with Stafl Systems and is exclusive to Stafl Systems. With an energy density of 160.5 Wh/kg, this pack provides energy to take flight. The housing has been developed to be both light and protected from water ingress. The pack uses the Stafl Systems BMS for low-voltage applications with CAN Bus communications. The pack features a single charge/discharge connector, and includes a mating connector for easy integration.

The included Charging Dock uses a Delta-Q Technologies ICL900 series charger and a slide-in/slide-out docking for easy charging. Charging takes approximately 90 minutes to full charge.

Features

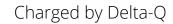
- 1.1 kWh Lithium-Ion Battery Pack
- 48 V Nominal Voltage
- 6.85 kg Pack Mass
- 160.5 Wh/kg
- 169.0 Wh/L
- Integrated Battery Management System
 - CAN Bus communication
 - Solid-state switch
 - Pre-charge circuit
 - Sophisticated Fault Management System
 - State of Charge (SOC)
 - State of Health (SOH)
 - Safe Operating Envelope (SOE)
- DC Bus Sync (easily paralleled)
- LED Indicators

Applications

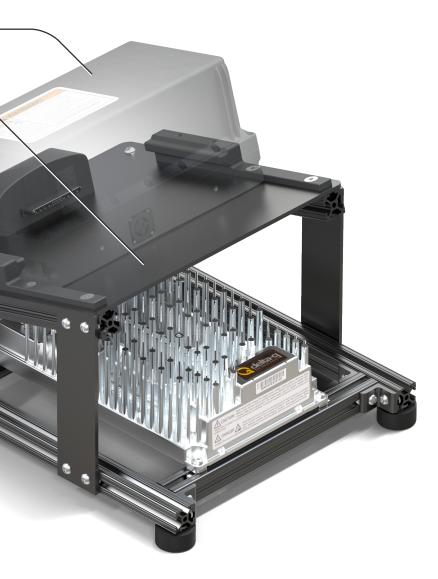
- Electric Drones
- Marine Vehicles
- Robotics

WHAT'S INCLUDED

- 1X **BAT1400** 1.1 kWh Battery Pack *Full details: see facing page*
- 1X **CHG1500** Charging Dock Featuring the ICL900 Battery Charger by Delta-Q Technologies
- 1X Mating Connector For installation in your vehicle or other application



The Charged by Delta-Q mark indicates that a battery was tested and validated with Delta-Q's chargers, software and charge algorithms. Stafl Systems is proud to support our customers by offering a complete battery and charger solution using Delta-Q's charging technology.

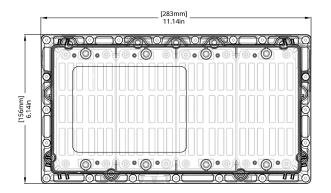


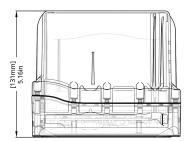


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Mechanical Drawings

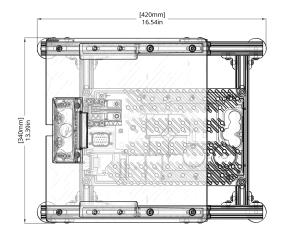
BAT1400 Battery Pack

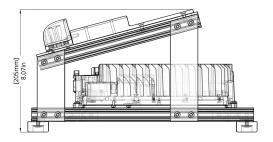




Specifications

CHG1500 Charging Dock





Parameter				Units
Cell Chemistry		NMC		
Pack Energy		1.1		kWh
Pack Voltage	Min	Nominal	Мах	V
	36	45.6	52.2	
Peak Power	Charging 24 A		Discharge 150 A for 2 sec	kW
	1.25		7.83	
Continuous Power (discharge - 120 A)		6.26		kW
Pack Mass		6.85		kg
Gravimetric Power Density		1308		W/kg
Gravimetric Energy Density		160.5		Wh/kg
Ambient Operating Temperature (dependent on duty cycle)	Discharge		Charge	°C
	-20 to 55		0 to 45	