

# Danecca - Made in the UK

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**POWER + PROTECT** 

### Who are Danecca?



Engineering



Factory In a Box™



Manufacturing



Laser Welding



**Testing** 



Wirebonding



### What does Danecca do?

#### Some recent projects:

- 200kWh battery for 300kW mobile DC fast charging
- UN38.3 certification for UK battery manufacture
- Contract manufacture of battery modules and packs
- Laser welding for prototype inverters and electric motors





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### Danecca shop



HOME OFF-THE-SHELF BATTERY SYSTEMS **TESTING SERVICES** 

Home > Off-The-Shelf Battery Systems > Danecca P1

#### Danecca P1

High performance Lithium-Ion NMC battery pack, with a built in battery management system (BMS)

- · Fast Charging
- · Drop in fitment
- UN 38.3 Certified
- · Flexible, scalable solution
- · Integrated charger
- 50.7V

#### TECHNICAL SPECIFICATION

- · Nominal Capacity: 5.8kWh
- Nominal Voltage: 50.6 V
- L(352mm)\*W(243mm)\*H(300mm)
- · Cell Assembly: 14S2P
- Weight: <35 kg</li>

#### SAFETY INSTRUCTIONS

- . Do not short the battery.
- · Do not disassemble your battery.
- · Keep batteries away from flammable obi

QTY

ADD TO YOUR BAG



https://shop.danecca.com/

**EQUIPMENT LEASING** 

# Take control of your supply chain

- UK stock
- Cell agnostic 18650, 21700, VDA prismatics
- Small batches, delivered when you need them
- Auditable, controlled, tested





# Optimised for your user



#### What do you need?

- Energy
- Cost
- Safety
- Fast Charging
- Repeatable performance
- Durability

#### Danecca's architectures:

- Distilled from 15 years of experience designing a wide range of battery packs
- No tooling cost prismatic module
- High thermal performance cylindrical module



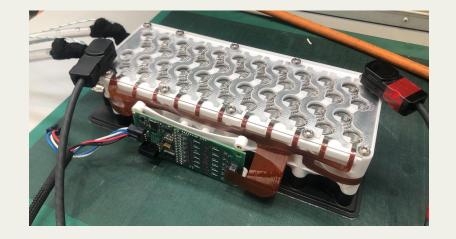
## Validated Performance

#### **Scalable Power**

- Change cells to get the right power to energy ratio
- Increase cell count in series or parallel to meet your voltage and energy targets

#### Tested to your unique use case

- Only pay for what you need, no more accidental oversizing
- Know how big your cooling system needs to be, or how long you'll have to wait before you can repeat the cycle



	Molicell P45B	Samsung 50S
Energy	4.5Ah	>4.8Ah
Charge Current	13.5A	6A
Discharge Current	45A	25A
Peak Heat Generation	Around 8W	Over 20W



# How can we be competitive?

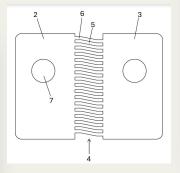
Protect your IP
Focus on performance at a product level
Bring testing in-house
Understand where we can add value



### **Our latest Patents**

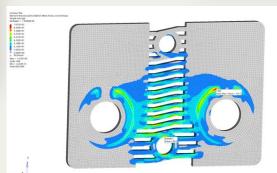
## Zero tooling, repeatable busbars

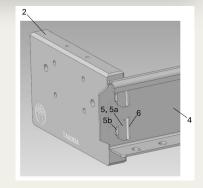
- Simulated with Altair to minimise thermal stress
- Laser cut or stamped, no bending or forming
- Perfectly flat for laser welding



## Self aligning & fixing module structure

- Module can be assembled free-standing on a flat bench
- Locking tabs hold it aligned until it's laser welded









### **Case Study**

#### **Brief**

Re-shoring of a small ebike battery pack

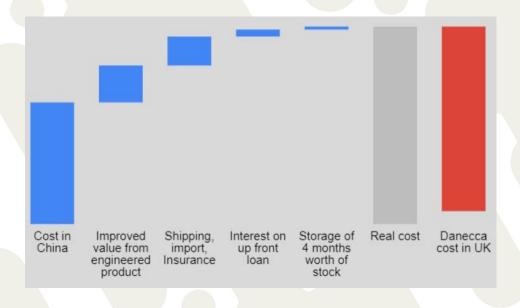
#### **Strategy - Improve value**

- Improve performance in same size
- Reduce MOQ lower storage cost
- Reduce Lead time lower finance costs



#### Result

- Cost saving of 7%
- Made in UK (brand message)
- Local support
- Quicker response





# We are Danecca, contact us to see how we can improve the value of your battery



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