

Densepack® Technical Information

Immersion cooled battery module

Our high-performance Densepack® -series uses the next generation battery immersion cooling technology

Our next-generation immersion cooling technology from Sweden for battery pack assembly transforms standard lithium battery cells into fire-safe high-performance battery packs, overcoming the key technical challenges of traditional systems. Our Densepack® -series offers a safer, greener alternative for marine, industrial and electricity grid applications.

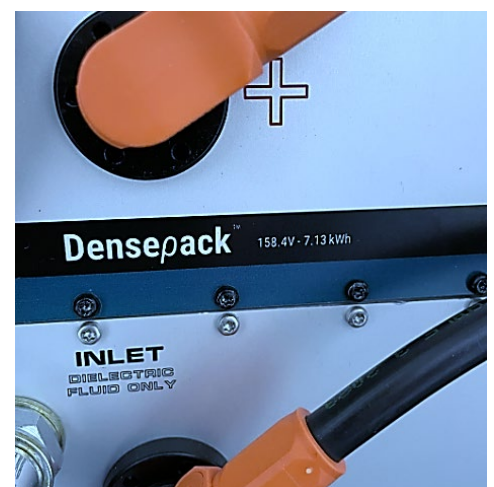
In addition to enhancing the performance and energy efficiency of NMC and LFP batteries, this innovative system provides unparalleled fire safety by preventing overheating, as well as delivering energy-efficient cell heating during colder conditions.

High voltage and high current capability for demanding vehicle or marine/ industrial. Current rating up-to 500 A continuous discharge. High voltage up to 1000 V. Multistring / cluster operation possible for large systems up-to MW range.

Standard configurations: 44S9P, 22S18P, 11S36P

KEY FEATURES

- Extremely compact
- Immersion cooled
- High fire safety
- Fast response (charge to discharge)
- High C-rate
- Efficient cell cooling
- Efficient cell heating

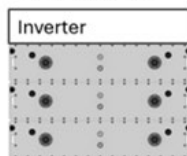


Performance data

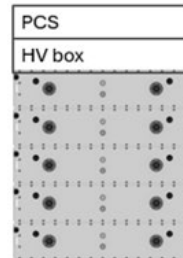
Max power peak	Up to 10C
Max power continuous	Up to 8C
Capacity	Up to 7,13kWh
Nominal voltage	158,4V
BMS and Breaker	Internal and External fuse, isolated BMS slave
Communication protocols	isoSPI
Minimum operating temperature	-10°C
Maximum operating temperature	+60°C
Dimensions (W, D, H)	480mm, 470mm, 100mm
Weight (fully equipped)	40kg
Cabinet protection class	IP67
Environmental management	Immersion liquid cooled
Applicable standards	UN38.3 T1-T4, CE, IEC 62619, ECE R100, ISO 26262

System configuration examples:

**1. 220-240 VAC
emergency power,
boost power, UPS.**



**2. BESS 50kW / 35kWh
grid. High C-rate**



**3. BESS 100kW / 140kWh grid. Multi-string /
cluster configuration**

