

EOH 1.1 Specifications Sheet

DNV-certified LFP battery system for maritime applications

The EOH 1.1 is a DNV-certified LFP battery system designed for maritime projects where safety, cost efficiency and operational reliability are critical. Its rack-free plug-&-stack architecture enables flexible integration in both newbuild and retrofit applications. The modular system design supports efficient installation, scalable system configurations and reliable operation in demanding maritime environments.



- **DNV-certified**

Type-approved according to DNV requirements

- **LFP battery chemistry**

High safety, thermal stability and long service life

- **Rack-free plug-&-stack design**

No additional rack systems required, flexible installation

- **Modular system architecture**

Scalable system configuration for different vessel types

- **Integrated safety concept**

Including passive fire suppression and system monitoring

- **Wide operating temperature range**

-20 °C to +50 °C

- **Designed for demanding environments**

Selected for deployment in a polar research station in Antarctica (2026)

EOH 1.1 Single Module Configuration

Characteristic	Value	Unit
VDC min.*	100	V
VDC max.	146	V
VDC nominal	128	V
Energy gross**	33,6	kWh
Energy nominal	29,4	kWh
Discharge C-rate cont.	0,7	C
Charge C-rate cont.	0,7	C
Module weight	270	kg
Module height	275	mm
Module width	650	mm
Module depth	1120	mm
Module volume	200,2	l
Volumetric energy density	167,8	Wh/l
Gravimetric energy density	124,4	Wh/kg
"Full cycles at 80% DoD 0.5C/0.5C	>4000	full cycles
IP class	67	
Operating temperature	-20 to +50	°C
Mounting/ fixation	Horizontal or vertical	
Internal fire extinguisher	aerosol	
Cooling	Natural cooling	

* Technical minimum voltage

** Max. voltage x cell capacity

EOH 1.1 Series String Configuration

Modules per String	Nominal Energy (kWh)	Min. Voltage (VDC)*	Nom. Voltage (VDC)	Max. Voltage (VDC)	Weight modules (kg)	Weight incl. PDU, cables (kg)
1	29,4	100	128	146	270	348
2	58,9	200	256	292	540	618
3	88,3	300	384	438	810	888
4	117,8	400	512	584	1080	1158
5	147,2	500	640	730	1350	1428
6	176,6	600	768	876	1620	1698

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