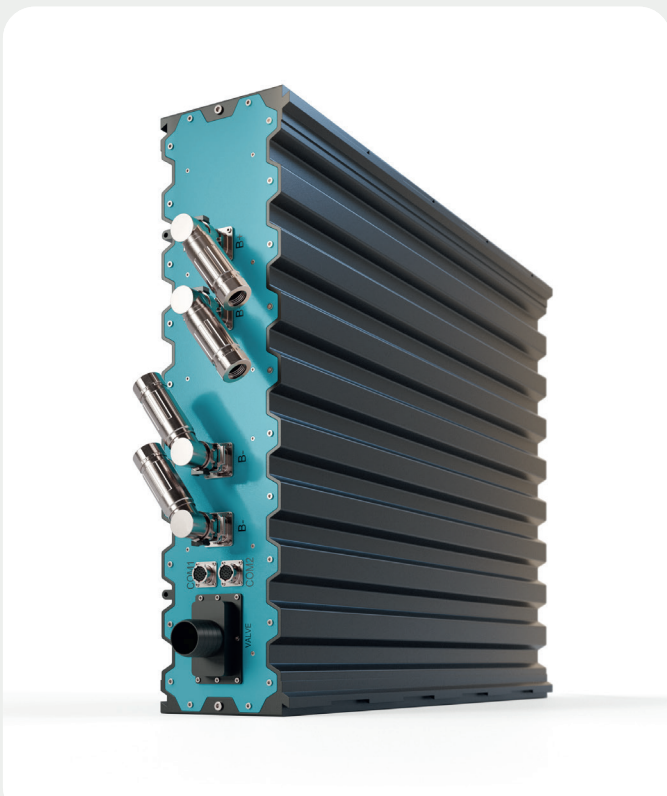


Kaptein NMC Specifications Sheet

Kaptein NMC Series - Navigator: Advanced Marine Energy Storage.

The Kaptein NMC Navigator offers superior energy storage in a compact, lightweight module tailored for maritime demands. With high energy density, a reliable 4C discharge rate, and flexible mounting options, it's designed for resilience in extreme conditions. Certified to IP67 and resistant to sea salt mist, the Navigator is ideal for both open deck and enclosed installations. Mountable at any angle, it sets a new standard in marine energy solutions.

Find the marine energy solution you've been looking for with the Kaptein Navigator.



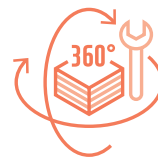
Seawater-Compatible
Liquid Cooling



Ultra-Lightweight



Exceeding DNV
Standards



Any Angle
Mounting



Exceptional
Reliability



Vibration
Resistant



High Energy
Density

Kaptein NMC Navigator (48-cell) – Module Overview

Characteristic	Value	Unit
VDC min.*	132	V
VDC max.	204	V
VDC nominal	177	V
Capacity gross	23,5	kWh
Capacity net	18,9	kWh
Discharge C-rate cont.	4C	C
Charge C-rate cont.	2C / 4C (for 15%<SOC<80% and project specific cooling)	C
Module weight	110	kg
Module height	149	mm
Module width	624	mm
Module depth	769	mm
Module volume	71,5	l
Volumetric energy density	328,7	Wh/l
Gravimetric energy density	4,68	kg/ kWh
Full cycles at 80% DoD 1C/1C	6.000	full cycles
IP class	67	
Operating temperature	-20 to +55	°C
Vibration resistance	10	G
Mounting/ fixation	any angle/ rack free	
Internal fire extinguisher	aerosol / CO2 capsules	
Air cooling**	< 2C	
Liquid cooling (optional)**	recommended at >2C	

* Technical minimum voltage

** Depending on application

Kaptein NMC Navigator – String Configuration

Modules per String	Gross Capacity (kWh)	Net Capacity (kWh)	Min. Voltage (VDC)*	Nom. Voltage (VDC)	Max. Voltage (VDC)	Weight (kg)	Weight incl. PDU (kg)	Volume (L)
1	23,5	18,9	132	177	204	110	139	71,5
2	47,0	37,8	264	354	408	220	249	143,8
3	70,5	56,6	396	531	612	330	359	215,6
4	94,0	75,5	528	708	816	440	469	287,5
5	117,5	94,4	660	885	1020	550	579	359,4
6	141,0	113,3	792	1062	1224	660	689	431,3
7	164,5	132,2	924	1239	1428	770	799	503,2



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This data sheet is strictly informational and is not legally binding. The exact specifications and/or product features (particularly in case of further development of the product) may differ slightly from the information provided here. Subject to errors and changes. Please read the safety and installation instructions carefully and completely before using the product. In case of purchase, the currently valid guarantee policies and the general terms and conditions of TESVOLT OCEAN GmbH apply.