

Technical Datasheet

Kaptein NMC

TESVOLT OCEAN

Kaptein NMC Module

| 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 String Configuration in Series

| 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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