



## EASy Marine®

### High power 38V LFP Battery Module

38.4 V / 3.1 kWh / 15.5 kW (cont.)

Values may change

### Mechanical Characteristics Module

Width x Height x Depth	290 mm x 290 mm x 550 mm
Weight	approx. 55 kg
IP Class	IP67

### Electrical Characteristics Module String

Cell configuration	2P12S topology based on 40 Ah LFP cells with excellent thermal and chemical stability for increased battery safety
Nominal operating voltage	38.4 V DC
Recommended / Max. charge voltage	42.0 V DC / 43.2 V DC
Recommended / Max. charge current	80 A (1C) / 240 A (3C)
Max. discharge current (continuous)	400 A (5C)
Absolute discharge voltage limit	24 V DC (BMS controlled)
Communication interface	CAN, MOD, PROFIBUS (further options possible)

### Other

Thermal management	Liquid cooling
Ambient temperature range	- 30°C to + 60°C
1C Cycle life at 20°C and 100% DOD	> 4,000 cycles
1C Cycle life at 20°C and 80% DOD	> 5,000 cycles
Maximum system voltage	Up to 1,500 V DC



Values may change

### Mechanical Characteristics Module

Width x Height x Depth	Fully flexible, customer specific
IP Class	IP44
Other configurations and measurements	Possible

### Electrical Characteristics Module String (e.g. 24 modules)

Nominal operating voltage	922 V DC – higher voltage possible
Recommended /Max. charge voltage	1,008 V DC / 1,036 V DC
Recommended /Max. charge current	80 A (1C) / 240 A (3C)
Max. discharge current (continuous)	400 A (5C)
Absolute discharge voltage limit	576 V DC (BMS controlled)
Communication interface	CAN, MOD, PROFIBUS (further options possible)

### Other

Safety	Monitoring of voltages, currents, cell temperatures and system levels via multistage master slave BMS
System level	In parallel connected battery strings can be configured to battery systems with very scalable power / voltage ranges
Thermal management	Liquid cooling
Connection for	Venting duct, Liquid cooling, Communication Interfaces
Approvals	DNV-GL, UN 38.3, IEC62619/62620