



NORD EcoStorage

High voltage LiFePO₄ battery



NORD EcoStorage LiFePO₄ battery with high life cycles ▶



SAFETY

- ⌚ Software and hardware redundancy design
- ⌚ Test: EMC, high and low-temperature aging, salt spray operation an vibration and other environmental



ENVIRONMENT

- ⌚ No toxic heavy metals
- ⌚ No caustic materials



LONG-LIFE

Over 6000 cycle life and maximum safety performance with LiFePO₄ technologies.



WARRANTY 10 YEARS

The long experience of the manufacturer and the proven field usage of NORD power batteries allow exceptional long warranty times.



REMOTE UPGRADABLE

Easy service maintenance by remote access and upgradability through EcoMaster devices. Make commissioning simpler than ever.



ACCURATE

- ⌚ Online estimation of high-precision capacity power management
- ⌚ Historical data recording



REAL-TIME

- ⌚ Real-time accurate SOC prediction
- ⌚ Real-time operational data monitoring



DEGREE OF PROTECTION

Degree of protection IP55 for indoor and outdoor use.



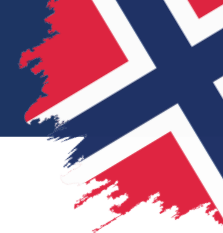
POWERFULL APPLICATION

Scalable up to 46 kWh per unit with parallel connection.



ONE HAND ENGINEERING SOLUTION

NORD EcoMaster and NORD EcoStorage solution come from one engineering house. The highest grade of compatibility insured.



TECHNICAL DATA

Configuration options of NORD EcoStorage

| NORD EcoStorage | 6.2 | 11.5 (M+S) | 17.3 (M+S*2) | 23.0 (M+S*3) |
|--|------------------------------|------------------------------|------------------------------|------------------------------|
| Nominal Voltage [V] | 204.8 | 230.4 | 345.6 | 460.8 |
| Operating Voltage [V] | 180-232 | 200-262 | 300-393 | 400-524 |
| Battery Type | Li-ion - LiFePO ₄ | Li-ion - LiFePO ₄ | Li-ion - LiFePO ₄ | Li-ion - LiFePO ₄ |
| Total Capacity [kWh] | 6.2 | 11.5 | 17.3 | 23.0 |
| Usable Capacity ^[1] [kWh] | 6.2 | 10.4 | 15.6 | 20.7 |
| Faradic Charge Efficiency [%] | 99 | 99 | 99 | 99 |
| Battery Roundtrip Efficiency [%] | 95 | 95 | 95 | 95 |
| Standard Power [kW] | 2.55 | 5.8 | 8.7 | 11.6 |
| Max Power [kW] | 6.2 | 8.0 | 12.0 | 16.0 |
| Recommend Charge / Discharge Current [A] | 25 | 25 | 25 | 25 |
| Max Charge / Discharge Current [A] | 30 | 35 | 35 | 35 |
| Short circuit current [A] | - | 760 | 760 | 760 |
| Cycle Life | >6000 Cycles | >6000 Cycles | >6000 Cycles | >6000 Cycles |
| Warranty [Year] | 10 | 10 | 10 | 10 |

*EcoStorage: Master (M) / Slave (S)

OPERATING INFORMATION

| | | |
|--|--------------------------------------|----------------------|
| Available Operating Temperature Range [°C] | -30 ~ 50 | 0 ~ 55 |
| Full-load Operating Temperature Range [°C] | -20 ~ 55 (3 months); 0 ~ 40 (1 year) | 5 ~ 48 |
| Humidity [%] | 4 ~ 100 (condensing) | 4 ~ 100 (condensing) |
| Altitude [m] | Below 4000 | Below 2000 |
| Protection | IP67 | IP55 |

BASIC INFORMATION

| | | |
|---------------------------------------|-----------------------------|-----------------------------|
| System to Inverter | RS485 / CAN2.0 | CAN2.0 |
| Battery to Battery / BMS | CAN2.0 | RS485 |
| Data Collection Port / FW Update | CAN2.0 | CAN2.0 |
| Master Control Working Mode Indicator | 1 LED | 1 LED |
| Master Control Capacity Indicator | 4 LED (25%, 50%, 75%, 100%) | 4 LED (25%, 50%, 75%, 100%) |
| Battery Module LED | - | 2 LED |
| Reset | - | Button |
| Switch ON / OFF | Button*1 + Breaker*1 | Button*1 + Breaker*1 |

SAFETY INFORMATION

| | | |
|------------------------------------|--|---|
| Safety | CE, TUV Mark, IEC62619, IEC62040, IEC60529 | CE, RCM, TUV (IEC62619) UL1973, ROHS, REACH |
| UN Number | UN3840 | UN3840 |
| Hazardous Materials Classification | Class 9 | Class 9 |
| Transport Testing Requirement | UN38.3 | UN38.3 |

DIMENSION AND WEIGHT

| | | | | |
|-------------------------|--------------|-------------------------|---------------------------|---------------------------|
| Dimensions (LxWxH) [mm] | 482x148x1615 | 474x193x708+474x193x647 | 474x193x708+474x193x647*2 | 474x193x708+474x193x647*3 |
| Weight [kg] | 76.5 | 72.2+68.5 | 72.2+68.5*2 | 72.2+68.5*3 |

NORD EcoStorage OPTIONAL CONFIGURATION



[1] Test conditions: 100% DOD, 0.5C charger & discharger @+25°C

*The NORD EcoStorage could be scalable up to 4 modules, for a total of 23.0 kWh.

*System Usable Energy may be variant with different inverter models.