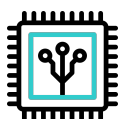


## North Sea EL6000



**Silicon Carbide Technology**  
Higher efficiency & Longer lifespan



**Battery Charge/Discharge Rate**  
Up to 100 A, 5 kW



**Backup Power Supply**  
Dedicated EPS Port



**Smart Tariff Compatible**  
Smart energy device integration & intelligent work modes



**UK Cloud**  
Real time visibility  
Monitor & configure from anywhere

## Input Parameter (PV)

|                                 |             |
|---------------------------------|-------------|
| Max. DC Input Power             | 9 kWp       |
| Starting Voltage                | 95 V        |
| Max. Input Voltage              | 600 V       |
| MPPT Voltage Range              | 80-550 V    |
| Full Load MPPT Voltage Range    | 350-500 V   |
| Number of MPPT                  | 2           |
| Input String Per MPPT           | 1           |
| Nominal Input Voltage           | 360 V       |
| MPPT Max. Input Current         | 18 A / 18 A |
| MPPT Max. Short Circuit Current | 22 A / 22 A |

## On-grid Parameter (AC)

|                              |                           |
|------------------------------|---------------------------|
| Nominal Output Power         | 6 kW                      |
| Max. Output Current          | 27.2 A                    |
| Nominal Grid Voltage         | 230 V                     |
| Max. Input Current from Grid | 27.2 A                    |
| Grid Voltage Range           | 184 - 276 V               |
| Frequency Range              | 45 - 65 Hz                |
| Power factor                 | ~1 (0.8 speed-up 0.8 lag) |
| THDi(@rated power)           | <3%                       |

## Backup Terminal (AC)

|                            |        |
|----------------------------|--------|
| Nominal Output Power       | 6 kW   |
| Nominal Voltage            | 230 V  |
| Nominal Frequency          | 50 Hz  |
| Nominal Output Current     | 27.2 A |
| Output THDu (@Linear Load) | < 2%   |

## General Data

|                                           |                              |
|-------------------------------------------|------------------------------|
| AC Connection                             | Single Phase                 |
| PV Max. Efficiency                        | 98%                          |
| Battery Charging / Discharging Efficiency | 95.2%                        |
| Standby Power Loss                        | ≤10W                         |
| Dimension (W x H x D)                     | 500 x 470 x 180 mm           |
| Weight                                    | 23 kg                        |
| Noise Emission                            | < 25 dB                      |
| Operating Temperature Range               | -25 °C ~ 60 °C               |
| Humidity Range                            | 0 ~ 100%                     |
| Cooling Method                            | Natural Cooling              |
| IP Rating                                 | IP65                         |
| Monitoring                                | LED & APP                    |
| Communication                             | RS485 / CAN / Parallel ports |

## Battery

|                                                |             |
|------------------------------------------------|-------------|
| Battery Type                                   | Sodium-ion  |
| Nominal Battery Voltage                        | 45 V        |
| Battery Voltage Range                          | 33 - 59.5 V |
| Max. Charging Voltage                          | 60 V        |
| Max. Continuous Charging / Discharging Current | 100 A       |

## Certificates & Approvals

|               |                                                                |
|---------------|----------------------------------------------------------------|
| <b>CE-LVD</b> | IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2 , IEC 62477-1 |
| <b>CE-EMC</b> | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 62920   |
| <b>Grid</b>   | G99, G100                                                      |

## Protection Mechanisms

- ✓ DC Switch (EN 60497-3)
- ✓ PV Insulation Resistance Detection
- ✓ Residual Current Monitoring
- ✓ Anti-islanding Protection
- ✓ AC Short Circuit Protection
- ✓ Overvoltage and Overload Protection
- ✓ AC Overvoltage Protection: Level 3
- ✓ Battery and PV Overvoltage: Level 2
- ✓ Surge Protection
- ✓ Lightning Protection
- ✓ Reverse Polarity Protection (PV & Battery)

