



**OnyxLine**  
Powers your life

Off-Grid Solar Inverter system

Software hybrid function

**ELANOR**

**4KW**

**IP54**

**Protection**

**2**  
Year

**Warranty**

## Technical Features

|                                        | Feature                               | ELANOR4                                                   |
|----------------------------------------|---------------------------------------|-----------------------------------------------------------|
| PV<br>(DC Input)                       | Recommended max. PV input power       | 6000W                                                     |
|                                        | Max. input voltage(Voc)               | 500V                                                      |
|                                        | MPPT operating voltage range          | 85V-450V (@85V start up)                                  |
|                                        | Number of MPPT                        | 1                                                         |
|                                        | Max. number of input strings per MPPT | 1                                                         |
|                                        | Max. input current per MPPT           | 15A                                                       |
|                                        | Max. short-circuit current per MPPT   | 18A                                                       |
| Grid<br>(AC Input)                     | Max input power                       | 6440W                                                     |
|                                        | Max input current                     | 28A                                                       |
|                                        | Rated grid voltage                    | 220/230/240Vac                                            |
|                                        | Rated grid frequency                  | 50/60Hz                                                   |
|                                        | Acceptable range                      | 170-280Vac (For UPS) ;<br>90-280Vac (For Home Appliances) |
| Battery<br>Parameters<br>(Bidirection) | Battery type                          | LiFePO 4 /Lead-acid                                       |
|                                        | Battery voltage range                 | 20~30Vdc                                                  |
|                                        | Rate Battery Voltage                  | 24Vdc                                                     |
|                                        | Max. charge/discharge current         | 120A/160A                                                 |
|                                        | BMS communication mode                | RS485                                                     |

|                                           |                                  |                                                                      |
|-------------------------------------------|----------------------------------|----------------------------------------------------------------------|
| <b>Back-up<br/>Output<br/>(AC Output)</b> | Rated output power               | 4000W/4000VA                                                         |
|                                           | Rated output current             | 15.6A                                                                |
|                                           | Rated output voltage / Frequency | 220/230/240Vac 50/60Hz                                               |
|                                           | Parallel Capacity                | -                                                                    |
|                                           | Surge power                      | 8000VA 5s                                                            |
|                                           | THDv (@ linear load)             | < 3%                                                                 |
|                                           | Switching time                   | 10ms typical (For UPS)<br>20ms typical (For Home Appliances)         |
| <b>Efficiency</b>                         | Peak efficiency                  | 95.00%                                                               |
|                                           | Max. MPPT efficiency             | 99.90%                                                               |
| <b>Protection</b>                         | Inner protection                 | √ Output short-circuit protection<br>√ Output overvoltage protection |
|                                           | Surge protection                 | PV: Type III, AC: Type III                                           |
|                                           | IP rating                        | IP54                                                                 |
| <b>General<br/>Parameters</b>             | Operating temperature range      | -10°C ~ 55°C                                                         |
|                                           | Relative humidity range          | 5%~95%                                                               |
|                                           | Max. operating altitude          | >2000m derating                                                      |
|                                           | Standby self-consumption         | <10W                                                                 |
|                                           | Installation type                | Wall-mounted                                                         |
|                                           | Cooling mode                     | Fan cooling                                                          |
|                                           | Communication                    | RS232/RS485/Dry contact/WI-FI                                        |
|                                           | Display                          | LCD                                                                  |
| <b>Mechanical<br/>Specifications</b>      | Inverter dimensions (L*W*H) (mm) | 444.7*346.6*120                                                      |
|                                           | Net weight (kg)                  | 9.2                                                                  |
|                                           | Shipping dimensions (L*W*H) (mm) | 560*465*240                                                          |
|                                           | Gross weight (kg)                | 11.4                                                                 |
|                                           | Warranty Period                  | 2 Years                                                              |

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