

# OMNIKSOL

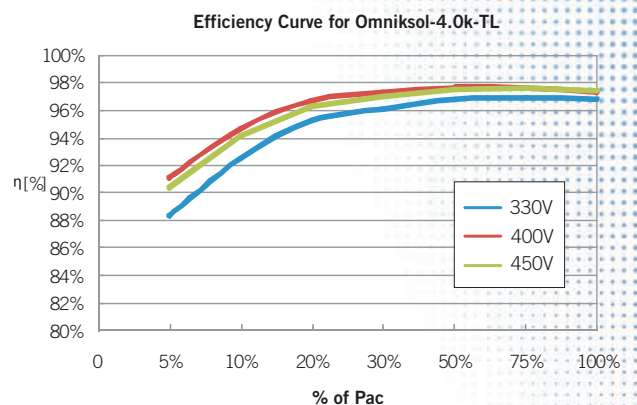
## 3.0 - 4.0 and 5.0k-TL



## On grid new energy solar inverters

### Features

- Transformerless design, high efficiency (Max. 97.6%, Euro. 97.0%)
- Multi MPPT channels (all models  $\geq 3.0$  kW)
- High MPP tracking accuracy ( $>99.9\%$ )
- Wide DC input range (120-590 V DC), compatible with different module technologies
- Easy wiring, easy installation and operation
- IP 65 design, suitable for indoor and outdoor installation
- 10 years warranty (15-20 years as option)
- Optional internal or external WiFi or GPRS monitoring
- Monitoring through free App for iPhone, iPad and Android  
*Downloadable from App Store*
- Libra supplies all models with (external) WiFi Kit and integrated DC Switch



# OMNIKSOL 3.0 - 4.0 and 5.0k-TL



|                                   |   |                                  |                                  |
|-----------------------------------|---|----------------------------------|----------------------------------|
| <b>DC INPUT</b>                   | OMNIKSOL 3.0k-TL  | OMNIKSOL 4.0k-TL                 | OMNIKSOL 5.0k-TL                 |
| Max. PV-Generator Power           | 1700 W / 1700 W   | 2250 W / 2250 W                  | 2500 W / 2500W                   |
| Max. DC Voltage                   | 590 V DC  | 590 V DC                         | 590 V DC                         |
| MPPT DC Voltage Range             | 120 - 500 V DC  | 120 - 500 V DC                   | 120 - 500 V DC                   |
| Turn off DC Voltage               | 120 V DC  | 120 V DC                         | 120 V DC                         |
| Max. DC Current                   | 36 A  | 36 A                             | 36 A                             |
| DC-Connection                     | MC4   | MC4                              | MC4                              |
| Number of MPP Trackers            | 2 MPP Trackers  | 2 MPP Trackers                   | 2 MPP Trackers                   |
| Turn on Power                     | 10 W  | 10 W                             | 10 W                             |
| <b>AC OUTPUT</b>                  |   |                                  |                                  |
| Max. AC Power                     | 3300 W  | 4400 W                           | 4800 W                           |
| Nominal AC Power                  | 3000 W  | 4000 W                           | 4600 W                           |
| Max. AC Current                   | 14.4 A  | 19.0 A                           | 21.0 A                           |
| Nominal AC Current                | 13.0 A  | 17.4 A                           | 20.0 A                           |
| Power Factor                      | 0.99 (> 30% of Full Load)   | 0.99 (> 30% of Full Load)        | 0.99 (> 30% of Full Load)        |
| THD (AC Output Current)           | < 2%  | < 2%                             | < 2%                             |
| AC Connector                      | Plug-in Connector   | Plug-in Connector                | Plug-in Connector                |
| <b>POWER CONSUMPTION</b>          |   |                                  |                                  |
| Own Consumption in Operation      | 45 W  | 50 W                             | 50 W                             |
| Power Consumption at Night        | 0 W   | 0 W                              | 0 W                              |
| Power Consumption at Standby      | 6 W   | 6 W                              | 6 W                              |
| <b>EFFICIENCY</b>                 |   |                                  |                                  |
| Max. Efficiency (at 360 V DC)     | 97.5%   | 97.6%                            | 97.6%                            |
| Euro. Efficiency (at 360 V DC)    | 96.6%   | 97.0%                            | 97.0%                            |
| MPPT Efficiency                   | 99.9%   | 99.9%                            | 99.9%                            |
| <b>SAFETY AND PROTECTION</b>      |   |                                  |                                  |
| Internal Overvoltage Protection   | Yes   | Yes                              | Yes                              |
| DC Insulation Monitoring          | Yes   | Yes                              | Yes                              |
| Earth Fault Protection            | Yes   | Yes                              | Yes                              |
| Grid Monitoring                   | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777  |                                  |                                  |
| Earth Fault Current Monitoring    | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777  |                                  |                                  |
| DC Current Monitoring             | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777  |                                  |                                  |
| Islanding Protection              | According to VDE 0126-1-1, RD1663, G83/1, AS4777  |                                  |                                  |
| <b>NORMATIVE REFERENCE</b>        |   |                                  |                                  |
| CE-Compliant                      | According to EN 62109, EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-12, EN 61000-3-11 |                                  |                                  |
| <b>DIMENSIONS AND WEIGHT</b>      |   |                                  |                                  |
| W x H x D                         | 367 x 526 x 163 mm  | 367 x 526 x 163 mm               | 367 x 526 x 163 mm               |
| Weight                            | 20 kg   | 21 kg                            | 21 kg                            |
| <b>ENVIRONMENTAL LIMITS</b>       |   |                                  |                                  |
| IP Protection Type                | IP 65 according to IEC 60529  | IP 65 according to IEC 60529     | IP 65 according to IEC 60529     |
| Operating Temperature Range       | -20°C to +60°C  | -20°C to +60°C                   | -20°C to +60°C                   |
| Relative Humidity                 | 0% to 98%, Non Condensating   | 0% to 98%, Non Condensating      | 0% to 98%, Non Condensating      |
| Maximum Altitude (above sealevel) | 2000 m  | 2000 m                           | 2000 m                           |
| Noise level                       | < 40 dBA  | < 40 dBA                         | < 40 dBA                         |
| <b>GENERAL DATA</b>               |   |                                  |                                  |
| Isolation Type                    | Transformerless   | Transformerless                  | Transformerless                  |
| Cooling Concept                   | Natural Convection  | Natural Convection               | Natural Convection               |
| Stainless Steel Housing           | For In- and Outdoor Installation  | For In- and Outdoor Installation | For In- and Outdoor Installation |
| Mounting Information              | Wall Bracket  | Wall Bracket                     | Wall Bracket                     |
| Display; 3 LED, Backlight         | 16 x 2 Character LCD  | 16 x 2 Character LCD             | 16 x 2 Character LCD             |
| Data Communication Interfaces     | RS485, Optional GPRS, Ethernet  | RS485, Optional GPRS, Ethernet   | RS485, Optional GPRS, Ethernet   |
| Computer Communication            | RS232 as an Option  | RS232 as an Option               | RS232 as an Option               |