



Omniksol-3.0k-TL2  
Omniksol-4.0k-TL2  
Omniksol-5.0k-TL2

SAA CCC UL D'E GS CE G59 G83 CQC ENEL2010 C10/11 Rd1663 TF3.2.1

| Features                                               | Advantage                                                  | Benefit                                                  |
|--------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|
| Standard 10 years warranty, extensional up to 15 years | Longer life cycle                                          | more stable and reliable                                 |
| Built-in GPRS as option                                | Plug and play                                              | No commissioning work to get real-time remote monitoring |
| Built-in Wifi as option                                | Free monitoring fee for data transmission                  | More convenient monitoring solution without any charge   |
| External Inductor and built-in fan                     | Very lower internal temperature                            | Longer life cycle                                        |
| Smaller and lighter, 5kW only 16kg                     | Easy transportation and installation                       | Saving storage and installation space                    |
| High performance DSP for algorithm control             | Faster CPU speed                                           | Higher inverter control accuracy                         |
| VDE-AR-N 4105 certification                            | Adjustable active and reactive power                       | Meet the latest certification and regulations            |
| High performance topology design                       | Maximum conversion efficiency up to 97.8%, CEC up to 97.3% | Increase system payback ability                          |
| Dual MPPT design                                       | More flexible system design                                | Fit in various installation environments                 |
| Multi-button touch interface                           | User friendly operation                                    | Easy to operate                                          |

# Omnik New Energy Solar Inverter Technical Data

Omniksol-3.0k-TL2/Omniksol-4.0k-TL2/Omniksol-5.0k-TL2

| Type                               |       | Omniksol-3.0k-TL2                                                                                                        | Omniksol-4.0k-TL2 | Omniksol-5.0k-TL2 |
|------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| Input (DC)                         |       |                                                                                                                          |                   |                   |
| Max.PV-Generator Power             | [W]   | 3400                                                                                                                     | 4600              | 5200              |
| Max. DC Voltage                    | [V]   |                                                                                                                          | 590               |                   |
| Rated Voltage                      | [V]   |                                                                                                                          | 360               |                   |
| MPPT DC Voltage Range              | [V]   |                                                                                                                          | 120 - 500         |                   |
| Turn off DC Voltage                | [V]   |                                                                                                                          | 90                |                   |
| Max. DC Current                    | [A]   | 12*2                                                                                                                     | 16*2              | 18*2              |
| Nominal DC Current                 | [A]   | 10*2                                                                                                                     | 13*2              | 14*2              |
| Number of DC Connection            |       |                                                                                                                          | 2                 |                   |
| Max. Input Power, each MPPT        | [W]   | 2000                                                                                                                     | 2600              | 3000              |
| DC-Connection                      |       |                                                                                                                          | MC4               |                   |
| Number of MPP trackers             |       |                                                                                                                          | 2                 |                   |
| Turn on Power                      | [W]   |                                                                                                                          | 10                |                   |
| Output (AC)                        |       |                                                                                                                          |                   |                   |
| Max. AC Power                      | [VA]  | 3300                                                                                                                     | 4400              | 5000              |
| Nominal AC Power                   | [W]   | 3000                                                                                                                     | 4000              | 4600              |
| Max. AC Current                    | [A]   | 14.4                                                                                                                     | 19.0              | 22.0              |
| Nominal AC Current                 | [A]   | 13.0                                                                                                                     | 17.4              | 20.0              |
| Grid Voltage Range                 |       | 185V...276V(depending on regional settings)                                                                              |                   |                   |
| Rated Frequency                    |       | 50Hz and 60Hz                                                                                                            |                   |                   |
| Power Factor                       |       | 0.95 capacitive...0.95 inductive                                                                                         |                   |                   |
| THD(AC Output current)             |       | <2%                                                                                                                      |                   |                   |
| AC Connector                       |       | Plug-in connector                                                                                                        |                   |                   |
| Power consumption                  |       |                                                                                                                          |                   |                   |
| Power Consumption at Night         | [W]   |                                                                                                                          | <1                |                   |
| Power Consumption at Standby       | [W]   |                                                                                                                          | 6                 |                   |
| Efficiency                         |       |                                                                                                                          |                   |                   |
| Max. Efficiency                    |       | 97.8%                                                                                                                    | 97.8%             | 97.8%             |
| Euro Efficiency                    |       | 97.1%                                                                                                                    | 97.3%             | 97.3%             |
| MPPT Efficiency                    |       |                                                                                                                          | 99.9%             |                   |
| Safety and protection              |       |                                                                                                                          |                   |                   |
| Internal Overvoltage Protection    |       |                                                                                                                          | Yes               |                   |
| DC Insulation Monitoring           |       |                                                                                                                          | Yes               |                   |
| Earth Fault Protection             |       |                                                                                                                          | Yes               |                   |
| Grid Monitoring                    |       | According to VDE 0126-1-1, VDE-AR-N 4105,RD1669, ENEL2010,C10/11,G83/1,AS4777                                            |                   |                   |
| Earth Fault Current Monitoring     |       | According to VDE 0126-1-1,VDE-AR-N 4105,RD1669, ENEL2010,C10/11,G83/1,AS4777                                             |                   |                   |
| DC Current Monitoring              |       | According to VDE 0126-1-1, VDE-AR-N 4105,RD1669, ENEL2010,C10/11,G83/1,AS4777                                            |                   |                   |
| Islanding Protection               |       | According to VDE 0126-1-1, VDE-AR-N 4105,RD1663, G83/1, AS4777                                                           |                   |                   |
| Normative reference                |       |                                                                                                                          |                   |                   |
| CE- Compliant According to         |       | EN 62109, EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4<br>EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11 |                   |                   |
| Dimensions and weight              |       |                                                                                                                          |                   |                   |
| Dimensions (WxHxD)                 | [mm]  |                                                                                                                          | 352x421x162.5     |                   |
| Weight                             | [kg]  | 16.5                                                                                                                     | 16.5              | 16.5              |
| Environmental limits               |       |                                                                                                                          |                   |                   |
| IP Protection Type                 |       | IP 65 according to IEC 60529                                                                                             |                   |                   |
| Operating Temperature Range        |       | -20°C to+60°C,up to 45°C without derating                                                                                |                   |                   |
| Relative Humidity                  |       | 0% to 98%, no condensation                                                                                               |                   |                   |
| Maximum Altitude (above sea level) | [m]   | 2000                                                                                                                     |                   |                   |
| Noise Level                        | [dBA] | < 40                                                                                                                     |                   |                   |
| General data                       |       |                                                                                                                          |                   |                   |
| Isolation Type                     |       | Transformerless                                                                                                          |                   |                   |
| Cooling Concept                    |       | Convection                                                                                                               |                   |                   |
| Housing                            |       | Iron housing for inside and outside installation                                                                         |                   |                   |
| Mounting Information               |       | Wall bracket                                                                                                             |                   |                   |
| LED Display                        |       | 3                                                                                                                        |                   |                   |
| LCD Display                        |       | Backlight, 20 x 4 Character LCD                                                                                          |                   |                   |
| Data Logger                        |       | RS485,USB ,Optional (Wi-Fi, GPRS)                                                                                        |                   |                   |
| Data Communication Interfaces      |       |                                                                                                                          |                   |                   |
| Computer Communication             |       | USB                                                                                                                      |                   |                   |
| Standard Warranty                  |       | 10 Years (Optional 15 years)                                                                                             |                   |                   |

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