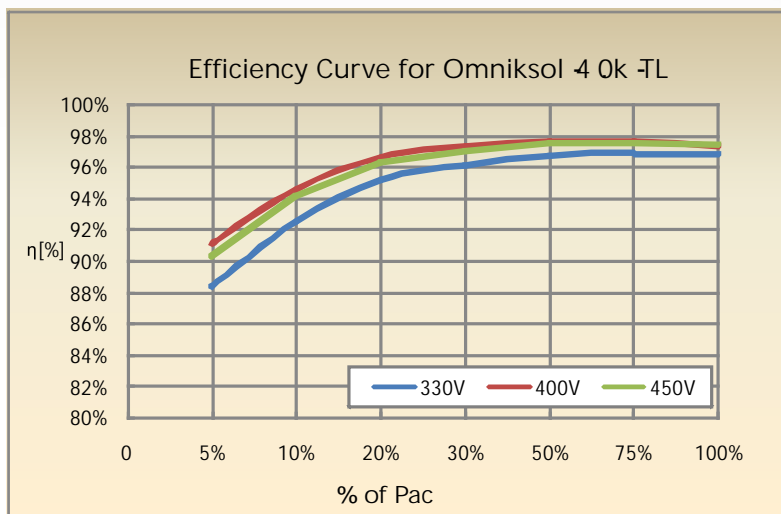


Omnik New Energy Solar Inverter

Omniksol-3.0k-TL/Omniksol-4.0k-TL/Omniksol-5.0k-TL

Features

- Transformerless design, high efficiency (Max.97.6%,Euro. 97.0%)
- Multi MPPT channels
- High MPPT accuracy(>99.9%)
- Wide DC input range(120-590 Vdc) compatible with different module technologies
- Easy to wire, install and operate
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty(10~25 years as option)



Certificates



ENEL Guide RD1663

Omnik New Energy Solar Inverter Technical Data

Omniksol-3.0k-TL / Omniksol-4.0k-TL / Omniksol-5.0k-TL

| Type | Omniksol-3.0k-TL | Omniksol-4.0k-TL | Omniksol-5.0k-TL |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| Input (DC) | | | |
| Max. PV-Generator Power [W] | 3400 | 4500 | 5000 |
| Max. DC voltage [V] | | 590 | |
| MPPT DC voltage Range [V] | | 120 - 500 | |
| Turn off DC voltage [V] | | 120 | |
| Max. DC Current [A] | 36 | 36 | 36 |
| Nominal DC Current [A] | 28 | 33 | 33 |
| Number of DC Connection | | 2 | |
| DC-Connection | | MC4 | |
| Number of MPP Trackers | | 2 | |
| Turn on Power [W] | | 10 | |
| Output (AC) | | | |
| Max. AC Power [W] | 3300 | 4400 | 4800 |
| Nominal AC Power [W] | 3000 | 4000 | 4600 |
| Max. AC Current [A] | 14.4 | 19.0 | 21.0 |
| Nominal AC Current [A] | 13 | 17.4 | 20 |
| Grid voltage Range | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438 | | |
| Grid Frequency Range | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438 | | |
| Power Factor | 0.99 (>30% of Full Load) | | |
| THD(AC Output Current) | <2% | | |
| AC Connector | Plug-in connector | | |
| Power Consumption | | | |
| Own Consumption in Operation [W] | 45 | 50 | 50 |
| Power Consumption at Night [W] | | 0 | |
| Power Consumption at Standby [W] | | 6 | |
| Efficiency | | | |
| Max. Efficiency (at 360VDC) | 97.5% | 97.6% | 97.6% |
| Euro. Efficiency (at 360VDC) | 96.6% | 97.0% | 97.0% |
| 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, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438 | | |
| Earth Fault Current Monitoring | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438 | | |
| DC Current Monitoring | According to VDE 0126-1-1, RD1663, ENEL2010, C10/11, G83/1, AS4777, EN50438 | | |
| Islanding Protection | According to VDE 0126-1-1, 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 EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11 | | |
| Dimensions and Weight | | | |
| Dimensions (WxHxD) [mm] | | 367x526x163 | |
| Weight [kg] | 20 | 21 | 21 |
| Environmental Limits | | | |
| IP Protection Type | IP 65 according to IEC 60529 | | |
| Operating Temperature Range | 20 °C to +60°C | | |
| 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 | Natural Convection | | |
| Housing | Iron housing for inside and outside installation | | |
| Mounting Information | Wall bracket | | |
| Display | 3 LED, Backlight, 16 x 2 Character LCD | | |
| Data Logger | | | |
| Data Communication Interfaces | RS485, Optional (Wi-Fi, GPRS, Ethernet) | | |
| Computer Communication | RS232 as Option | | |
| Standard Warranty | 5 Years (Optional 10-25 years) | | |

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