
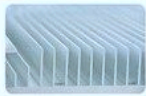

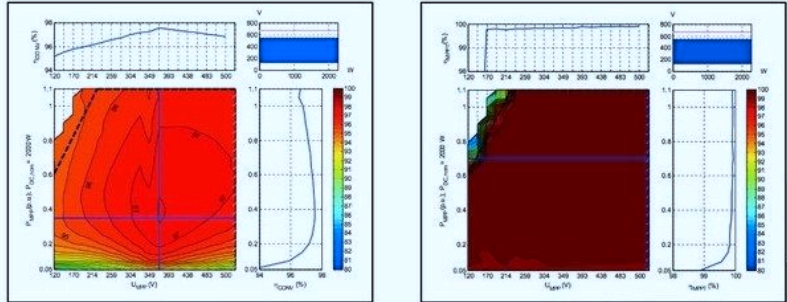


- Transformerless design, high efficiency (Max. 97.4%, Euro 96.6%)
- High MPP tracking accuracy (> 99.9%)
- Wide DC input range(120-500 Vdc), compatible with different module technologies
- Easy wiring, installing and operating
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty(10 years as option)

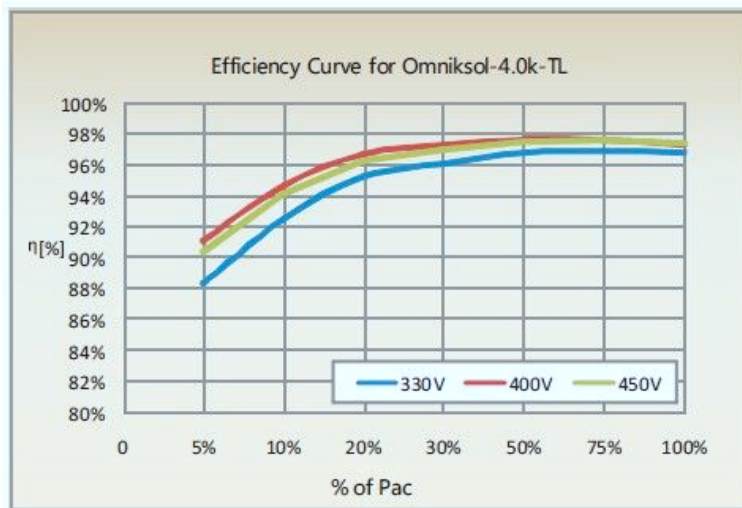
| Type | Omniksol-1.5k-TL | Omniksol-2.0k-TL | |
|---|---------------------|--|-------------|
| Input (DC) | | | |
| Max. PV-Generator Power | P_{PV} [W] | 1750 | 2300 |
| Max. DC Voltage | $V_{PHE(DC)}$ [V] | 500 | 500 |
| MPPT DC Voltage Range | $V_{PHE(L)}$ [V] | 120 - 450 | 120 - 450 |
| Turn off DC Voltage | $V_{PHE(DC)}$ [V] | 120 | 120 |
| Max. DC Current | $I_{PHE(DC)}$ [A] | 18 | 18 |
| Nominal DC Current | $I_{N(DC)}$ [A] | 14 | 16.5 |
| Number of DC Connection | | 1 | 1 |
| DC-Connection | | Amphenol H4 | Amphenol H4 |
| Number of MPP trackers | | 1 | 1 |
| Turn on Power | $P_{PHE(DC)}$ [W] | 10 | 10 |
| Output (AC) | | | |
| Max. AC Power | $P_{PHE(AC)}$ [V] | 1650 | 2200 |
| Nominal AC Power | $P_{N(AC)}$ [W] | 1500 | 2000 |
| Max. AC Current | $I_{PHE(AC)}$ [A] | 9.0 | 12.0 |
| Nominal AC Current | $I_{N(AC)}$ [A] | 6.5 | 8.5 |
| Power Connection | | Single phase | |
| Grid Voltage Range | | According to VDE 0126-1-1, RD1663, ENEL2010.C10/11,G83/1, AS4777 | |
| Grid Frequency Range | | According to VDE 0126-1-1, RD1663, ENEL2010.C10/11,G83/1, AS4777 | |
| Power Factor | | 0.99 (>30% of Full Load) | |
| Harmonic Distortion (THD) at Nominal Output | | <2% | |
| AC Connector | | Plug-in connector | |
| Power Consumption | | | |
| Own Consumption in Operation | $P_{OWN(AC)}$ [W] | 30 | 30 |
| Power Consumption at Night | $P_{NIGHT(AC)}$ [W] | 0 | 0 |
| Power Consumption at Standby | $P_{STBY(AC)}$ [W] | 6 | 6 |
| Efficiency | | | |
| Max. Efficiency (at 360VDC) | | 97.4% | 97.4% |
| Euro Efficiency (at 360VDC) | | 96.6% | 96.6% |
| MPPT Efficiency | | 99.9% | 99.9% |
| Safety and Protection | | | |
| Internal Overvoltage Protection | | Yes | Yes |
| DC Insulation Monitoring | | Yes | Yes |
| Earth Fault Protection | | 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 | |
| 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] | 330x425x130 | |
| Weight | [kg] | 13 | |
| 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 | | Convection | |
| Housing | | Stainless steel housing for inside and outside installation | |
| Mounting Information | | Wall bracket | |
| LED Display | | 3 | |
| LCD Display | | Backlight, 16 x 2 Character LCD | |
| Data Logger | | RS485, Optional (Wi-Fi, GPRS, Ethernet) | |
| Data Communication Interfaces | | RS232 as Option | |
| Computer Communication | | RS232 as Option | |
| Standard Warranty | | 5 Years (Optional 10 years) | |

Features



Transformerless design,
high efficiency
(Max.97.6%,Euro.
97.0%)
Multi MPPT channels
High MPP tracking
accuracy(>99.9%)

Wide DC input
range(120-590 Vdc),
compatible with



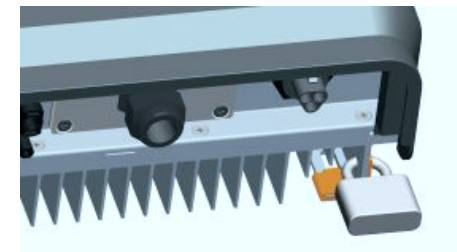
different module technologies



Easy wiring, installing and operating



IP 65 design, suitable for indoor
and outdoor installation 5 years warranty(10~25 years as option)





| | | | |
|---------------------------------------|--|-------------|-------|
| 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 [V] | 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 | | |
| Grid Frequency Range | According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777 | | |
| 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 | | |
| 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 | | |
| 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) | | |



Sunlink Energy Limited
