

# OMNIKSOL

## 1.0k - 1.5k and 2.0k-TL2



## New generation low-noise inverters

### Features

- Standard 10 years warranty, 5-25 years optional
- Built-in Wifi as option
- Built-in GPRS as option
- External Inductor
- Smaller and lighter, 2kW only 9.6kg
- High performance DSP for algorithm control
- VDE-AR-N 4105 certification
- New topology design
- Multi-button touch interface
- LCD screen visible at night
- Have anti-shading function

### Advantages

- Longer life cycle
- Plug and play
- Free monitoring fee for data transmission
- Very lower internal temperature
- Easy transportation and installation
- Faster CPU speed
- Adjustable active and reactive power
- Maximum conversion efficiency up to 97.7%, Euro up to 96.9%
- User friendly operation
- Real-time data readable at night

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INPUT(DC)	OMNIKSOL 1.0k-TL2	OMNIKSOL 1.5k-TL2	OMNIKSOL 2.0k-TL2
Max. PV Power	1300 W	1750 W	2300 W
Max. DC Voltage	500 V	500 V	500 V
Nominal DC Voltage	360 V	360 V	360 V
Operating MPPT Voltage Range	80-360 V	120-450 V	120-450 V
MPPT Voltage Range at Nominal Power	150-360 V	150-450 V	150-450 V
Start up DC Voltage	90 V	150 V	150 V
Turn off DC Voltage	80 V	120 V	120 V
Max. DC Current	16 A	18 A	18 A
Max. Short Circuit Current for each MPPT	20 A	20 A	20 A
Number of MPP trackers	1	1	1
Number of DC Connection for each MPPT	1	1	1
DC Connection Type	MC4 Connector	MC4 Connector	MC4 Connector
<b>OUTPUT (AC)</b>			
Max. AC Apparent Power	1100 VA	1650 VA	2200 VA
Nominal AC Power(cos phi = 1)	1000 W	1500 W	2000 W
Nominal Grid Voltage	220 V / 230 V / 240 V	220 V / 230 V / 240 V	220 V / 230 V / 240 V
Nominal Grid Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Max. AC Current	5.8A	9.0 A	11.0 A
Grid Voltage Range*	185-276 V	185-276 V	185-276 V
Grid Frequency Range*	45-55 Hz / 55-65 Hz	45-55 Hz / 55-65 Hz	45-55 Hz / 55-65 Hz
Power Factor	0.95 capacitive...0.95 inductive	0.95 capacitive...0.95 inductive	0.95 capacitive...0.95 inductive
Total Harmonic Distortion (THD)	< 2%	< 2%	< 2%
Feed in Starting Power	30 W	30 W	30 W
Night time Power Consumption	< 1 W	< 1 W	< 1 W
Standby Consumption	6 W	6 W	6 W
AC Connection Type	Plug-in connector	Plug-in connector	Plug-in connector
<b>EFFICIENCY</b>			
Max. Efficiency (at 360Vdc)	97.7%	97.7%	97.7%
Euro Efficiency (at 360Vdc)	96.7%	96.8%	96.9%
MPPT Efficiency	99.9%	99.9%	99.9%
<b>SAFETY AND PROTECTION</b>			
DC Insulation Monitoring	Yes		
DC Switch	Optional		
Residual Current Monitoring Unit (RCMU)	Integrated		
Grid Monitoring with Anti-islanding	Yes		
Protection Class	I (According to IEC 62103)		
Overvoltage Category	PV II / Mains III (According to IEC 62109-1)		
<b>REFERENCE STANDARD</b>			
Safety Standard	EN 62109, AS/NZS 3100		
EMC Standard	EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4, EN61000-3-2, EN61000-3-3		
Grid Standard	VDE-AR-N-4105,VDE 0126-1-1, RD1699, C10/11, G83/2, UTE C15-712-1, AS4777, CEI 0-21, EN50438		
<b>GENERAL DATA</b>			
Dimensions (WxHxD)	343 x 281 x 150 mm		
Weight	9.6 kg		
Environmental Protection Rating	IP 65 (According to IEC 60529)		
Cooling Concept	Natural convection		
Mounting Information	Wall bracket		
Operating Temperature	-20°C to +60°C(derating above 45°C)		
RangeRelative Humidity	0% to 98%, no condensation		
Max. Altitude (above sea level)	2000 m		
Noise Level	< 40 dB		
Isolation Type	Transformerless		
Display	3 LED, Backlight, 4 x 20 Character LCD		
Data Communication Interfaces	RS485 (WiFi, GPRS integrated)		
Computer Communication	USB		
Standard Warranty	10 Years (5-25 years optional)		

\*The AC voltage and frequency range may vary depending on specific country grid