

# OMNIKSOL

## 3.0k - 4.0k and 5.0k-TL2



## New generation low-noise inverters

### Features

- Standard 10 years warranty, 5-25 years optional
- Built-in Wifi
- Built-in GPRS as option
- External Inductor
- Smaller and lighter, only 16.5 kg
- High performance DSP for algorithm control
- VDE-AR-N 4105 certification
- New topology design
- Dual MPPT 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 98.2%, Euro up to 97.5%
- User friendly operation
- Real-time data readable at night



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INPUT(DC)	OMNIKSOL 3.0k-TL2	OMNIKSOL 4.0k-TL2	OMNIKSOL 5.0k-TL2
Max. PV Power	3400 W	4500 W	5200 W
Max. DC Voltage	590 V	590 V	590 V
Nominal DC Voltage	360 V	360 V	360 V
Operating MPPT Voltage Range	120 - 550 V	120 - 550 V	120 - 550 V
MPPT Voltage Range at Nominal Power	150 - 500 V	200 - 500 V	200 - 500 V
Start up DC Voltage	150 V	150 V	150 V
Turn off DC Voltage	120 V	120 V	120 V
Max. DC Current	12 A / 12 A	16 A / 16 A	18 A / 18 A
Max. Short Circuit Current for each MPPT	16 A / 16 A	20 A / 20 A	20 A / 20 A
Number of MPP trackers	2	2	2
Max. Input Power for each MPPT	2000 W	2600 W	3000 W
Number of DC Connection for each MPPT	A:1 / B:1	A:1 / B:1	A:1 / B:1
DC Connection Type	MC4 connector	MC4 connector	MC4 connector
<b>OUTPUT (AC)</b>			
Max. AC Apparent Power	3300 VA	4400 VA	5000 VA*
Nominal AC Power(cos phi = 1)	3000 W	4000 W	4600 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	14.4 A	19.0 A	22.0 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)	98.2%	98.2%	98.2%
Euro Efficiency (at 360Vdc)	97.3%	97.5%	97.5%
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, EN61000-3-11, EN61000-3-12		
Grid Standard	VDE-AR-N-4105, VDE 0126-1-1, RD1699, CEI0-21, C10/11, G83/2, UTE C15-712-1, EN50438, AS4777, CQC		
<b>GENERAL DATA</b>			
Dimensions (WxHxD)	352 x 421 x162,5 mm		
Weight	16.5 kg		
Environmental Protection Rating	IP 65 (According to IEC 60529)		
Cooling Concept	Fan cooling		
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 optional)		
Computer Communication	USB		
Standard Warranty	10 Years (5-25 years optional)		

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