

OMNIKSOL

2.5k and 3.0k -TL2-S



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, 3kW-TL2 only 9.9 kg
- High performance DSP for algorithm control
- VDE-AR-N 4105 certification
- New topology design
- Multi-button touch interface

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 97%
- User friendly operation



INPUT(DC)	OMNIKSOL 2.0k-TL2-S	OMNIKSOL 3.0k-TL2-S
Max. PV Power	2800 W	3250 W
Max. DC Voltage	500 V	500 V
Nominal DC Voltage	360 V	360 V
Operating MPPT Voltage Range	120-450 V	120-450 V
MPPT Voltage Range at Nominal Power	150-450 V	150-450 V
Start up DC Voltage	150 V	150 V
Turn off DC Voltage	120 V	120 V
Max. DC Current	18 A	18 A
Max. Short Circuit Current for each MPPT	20 A	20 A
Number of MPP trackers	1	1
Number of DC Connection for each MPPT	1	1
DC Connection Type	MC4 Connector	MC4 Connector
OUTPUT (AC)		
Max. AC Apparent Power	2750 VA	3000 VA
Nominal AC Power(cos phi = 1)	2500 W	3000 W
Nominal Grid Voltage	220 V / 230 V / 240 V	220 V / 230 V / 240 V
Nominal Grid Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Max. AC Current	12.5 A	14.0 A
Grid Voltage Range*	185-276 V	185-276 V
Grid Frequency Range*	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
Total Harmonic Distortion (THD)	< 2%	< 2%
Feed in Starting Power	30 W	30 W
Night time Power Consumption	< 1 W	< 1 W
Standby Consumption	6 W	6 W
AC Connection Type	Plug-in connector	Plug-in connector
EFFICIENCY		
Max. Efficiency (at 360Vdc)	97.7%	97.7%
Euro Efficiency (at 360Vdc)	96.9%	97.0%
MPPT Efficiency	99.9%	99.9%
SAFETY AND PROTECTION		
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)	
REFERENCE STANDARD		
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	
GENERAL DATA		
Dimensions (WxHxD)	343 x 281 x 150 mm	
Weight	9.9 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