

OMNIKSOL

1.0k and 1.5k -TL-Mini



New generation low-noise inverters

Features

- Transformerless design,
- High efficiency (Max. 95.5%, Euro 94.2%)
- High MPPT accuracy (>99.9%)
- Integrated WiFi
- Built-in GPRS as option
- Wide DC input range (60-300 Vdc), compatible with 2 to 7 panel installation
- Easy to wire, install and operate
- IP65 design, suitable for indoor and outdoor installation
- 10 years warranty (extension up to 25 years optional)



DC INPUT	OMNIKSOL 1.0k-TL-M	OMNIKSOL 1.5k-TL-M
Max. PV Power	1.25 kW	1.5 kW
Max DC Voltage	400 V	400 V
Operating MPPT Voltage Range	60-300 V	60-300 V
MPPT Voltage Range at Nominal Power	100-300 V	125-300 V
Start up DC Voltage	70 V	70 V
Turn off DC Voltage	50 V	50 V
Max. DC Current	10 A	10 A
Max. Short Circuit Current for each MPPT	12 A	12 A
Number of MPPT trackers	1	1
Number of DC Connections for each MPPT	1	1
DC Connection Type	MC4 Connector	MC4 Connector
AC OUTPUT		
Max. AC Apparent Power	1000 VA	1250 VA
Nominal AC Power (cos phi = 1)	1000 W	1250 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	5.0 A	6.25 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	> 0.99	> 0.99
Total Harmonic Distortion (THD)	< 3%	< 3%
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)	95.5%	95.5%
Euro Efficiency (at 360Vdc)	94.2%	94.2%
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 0126-1-1, RD1663, C10/11, G83/2, UTE C15-712-1, AS4777, CQC, CEI 0-21, EN50438	
GENERAL DATA		
Dimensions (WxHxD)	210 x 297 x 90 mm	
Weight	5.5 kg	
Environmental Protection Rating	IP65 (According to IEC 60529)	
Cooling Concept	Natural convection	
Mounting Information	Wall bracket	
Operating Temperature Range	-20°C to +60°C (derating above 45)	
Relative Humidity	0% to 98%, no condensation	
Max. Altitude (above sea level)	2000m	
Noise Level	< 40dB	
Isolation Type	Transformerless	
Display	2 LED Backlight 16 x 2 Character LCD	
Data Communication Interfaces	RS485, WIFI, GPRS optional	
Computer Communication	RS232 as option	
Standard Warranty	10 Years (extension up to 25 years optional)	

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