

OMNIKSOL

3.0 - 4.0 and 5.0k-TL



External WiFi kit



Clear display



DC switch

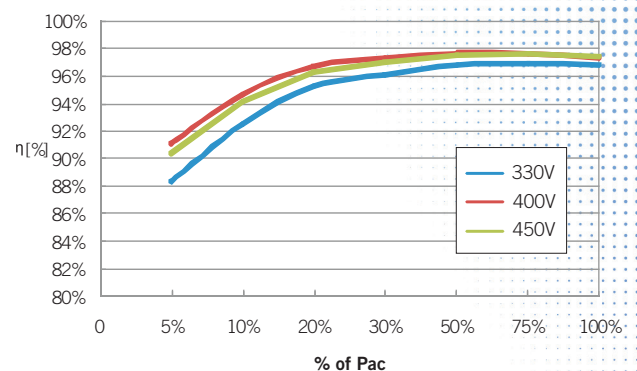


ON GRID NEW ENERGY SOLAR INVERTERS

Features

- Transformerless design, high efficiency (Max. 97.6%, Euro. 97.0%)
- Multi MPPT channels (all models ≥ 3.0 kW)
- High MPP tracking accuracy ($>99.9\%$)
- Wide DC input range (120-590 V DC), compatible with different module technologies
- Easy wiring, easy installation and operation
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty (10-25 years as an option)
- Optional internal or external WiFi or GPRS monitoring
- Monitoring through free App for iPhone, iPad and Android
Downloadable from App Store
- Libra supplies all models with (external) WiFi Kit and integrated DC Switch

Efficiency Curve for Omniksol-4.0k-TL



OMNIKSOL

3.0 - 4.0 and 5.0k-TL



	OMNIKSOL 3.0k-TL	OMNIKSOL 4.0k-TL	OMNIKSOL 5.0k-TL
DC INPUT			
Max. PV-Generator Power	3400 W	4500 W	5000 W
Max. DC Voltage	590 V DC	590 V DC	590 V DC
MPPT DC Voltage Range	120 - 500 V DC	120 - 500 V DC	120 - 500 V DC
Turn off DC Voltage	120 V DC	120 V DC	120 V DC
Max. DC Current	36 A	36 A	36 A
DC-Connection	MC4	MC4	MC4
Number of MPP Trackers	2 MPP Trackers	2 MPP Trackers	2 MPP Trackers
Turn on Power	10 W	10 W	10 W
AC OUTPUT			
Max. AC Power	3300 W	4400 W	4800 W
Nominal AC Power	3000 W	4000 W	4600 W
Max. AC Current	14.4 A	19.0 A	21.0 A
Nominal AC Current	13.0 A	17.4 A	20.0 A
Power Factor	0.99 (> 30% of Full Load)	0.99 (> 30% of Full Load)	0.99 (> 30% of Full Load)
THD (AC Output Current)	< 2%	< 2%	< 2%
AC Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
POWER CONSUMPTION			
Own Consumption in Operation	45 W	50 W	50 W
Power Consumption at Night	0 W	0 W	0 W
Power Consumption at Standby	6 W	6 W	6 W
EFFICIENCY			
Max. Efficiency (at 360 V DC)	97.5%	97.6%	97.6%
Euro. Efficiency (at 360 V DC)	96.6%	97.0%	97.0%
MPPT Efficiency	99.9%	99.9%	99.9%
SAFETY AND PROTECTION			
Internal Overvoltage Protection	Yes	Yes	Yes
DC Insulation Monitoring	Yes	Yes	Yes
Earth Fault Protection	Yes	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, EN 61000-3-2, EN 61000-3-3, EN 61000-3-12, EN 61000-3-11		
DIMENSIONS AND WEIGHT			
W x H x D	367 x 526 x 163 mm	367 x 526 x 163 mm	367 x 526 x 163 mm
Weight	20 kg	21 kg	21 kg
ENVIRONMENTAL LIMITS			
IP Protection Type	IP 65 according to IEC 60529	IP 65 according to IEC 60529	IP 65 according to IEC 60529
Operating Temperature Range	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Relative Humidity	0% to 98%, Non Condensating	0% to 98%, Non Condensating	0% to 98%, Non Condensating
Maximum Altitude (above sealevel)	2000 m	2000 m	2000 m
Noise level	< 40 dBA	< 40 dBA	< 40 dBA
GENERAL DATA			
Isolation Type	Transformerless	Transformerless	Transformerless
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Stainless Steel Housing	For In- and Outdoor Installation	For In- and Outdoor Installation	For In- and Outdoor Installation
Mounting Information	Wall Bracket	Wall Bracket	Wall Bracket
Display; 3 LED, Backlight	16 x 2 Character LCD	16 x 2 Character LCD	16 x 2 Character LCD
Data Communication Interfaces	RS485, Optional GPRS, Ethernet	RS485, Optional GPRS, Ethernet	RS485, Optional GPRS, Ethernet
Computer Communication	RS232 as an Option	RS232 as an Option	RS232 as an Option