

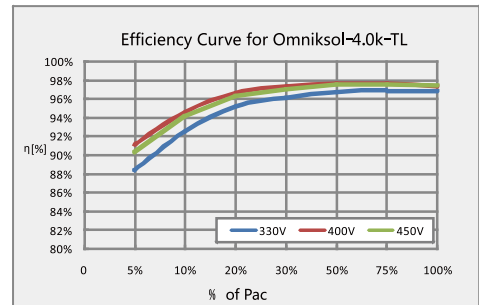
Solar Inverter

Omniksol-3.0k-TL
Omniksol-4.0k-TL
Omniksol-5.0k-TL



Features

- Transformerless design, high efficiency (Max.97.6%,Euro. 97.0%)
- Multi MPPT channels
- High MPPT accuracy(>99.9%)
- Wide DC input range(120-590 Vdc), compatible with different module technologies
- Easy to wire, install and operate
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty(10~25 years as option)



Certificates



ENEL Guide RD1663

MNIA
Omnik New Energy

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Solar Inverter Technical Data

Omniksol-3.0k-TL / Omniksol-4.0k-TL / Omniksol-5.0k-TL

Type	Omniksol-3.0k-TL	Omniksol-4.0k-TL	Omniksol-5.0k-TL
Input (DC)			
Max. PV-Generator Power [W]	3400	4500	5000
Max. DC voltage [V]		590	
MPPT DC voltage Range [V]		120 - 500	
Turn off DC voltage [V]		120	
Max. DC Current [A]	36	36	36
Nominal DC Current [A]	28	33	33
Number of DC Connection		2	
DC-Connection		MC4	
Number of MPP Trackers		2	
Turn on Power [W]		10	
Output (AC)			
Max. AC Power [W]	3300	4400	4800
Nominal AC Power [W]	3000	4000	4600
Max. AC Current [A]	14.4	19.0	21.0
Nominal AC Current [A]	13	17.4	20
Grid voltage Range	According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777, EN50438		
Grid Frequency Range	According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777, EN50438		
Power Factor	0.99 (>30% of Full Load)		
THD(AC Output Current)	<2%		
AC Connector	Plug-in connector		
Power Consumption			
Own Consumption in Operation [W]	45	50	50
Power Consumption at Night [W]		0	
Power Consumption at Standby [W]		6	
Efficiency			
Max. Efficiency (at 360VDC)	97.5%	97.6%	97.6%
Euro. Efficiency (at 360VDC)	96.6%	97.0%	97.0%
MPPT Efficiency		99.9%	
Safety and Protection			
Internal Overvoltage Protection		Yes	
DC Insulation Monitoring		Yes	
Earth Fault Protection		Yes	
Grid Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777, EN50438		
Earth Fault Current Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777, EN50438		
DC Current Monitoring	According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777, EN50438		
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 EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11		
Dimensions and Weight			
Dimensions (WxHxD)[mm]		367x526x163	
Weight [kg]	20	21	21
Environmental Limits			
IP Protection Type		IP 65 according to IEC 60529	
Operating Temperature Range		-20°C to +60°C	
Relative Humidity		0% to 98%, no condensation	
Maximum Altitude (above sea level)[m]		2000	
Noise Level[dBA]		<40	
General Data			
Isolation Type		Transformerless	
Cooling Concept		Natural Convection	
Housing		Iron housing for inside and outside installation	
Mounting Information		Wall bracket	
Display		3 LED, Backlight, 16 x 2 Character LCD	
Data Logger			
Data Communication Interfaces		RS485, Optional (Wi-Fi, GPRS, Ethernet)	
Computer Communication		RS232 as Option	
Standard Warranty		5 Years (Optional 10~25 years)	

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