

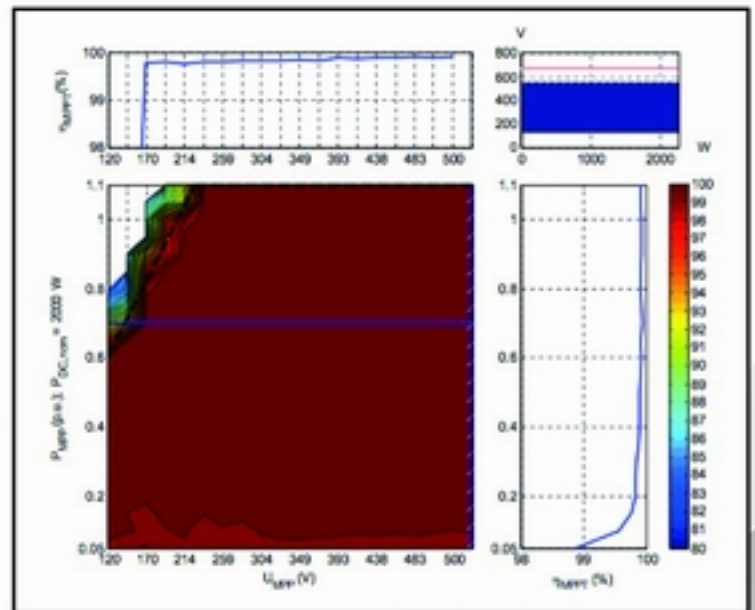
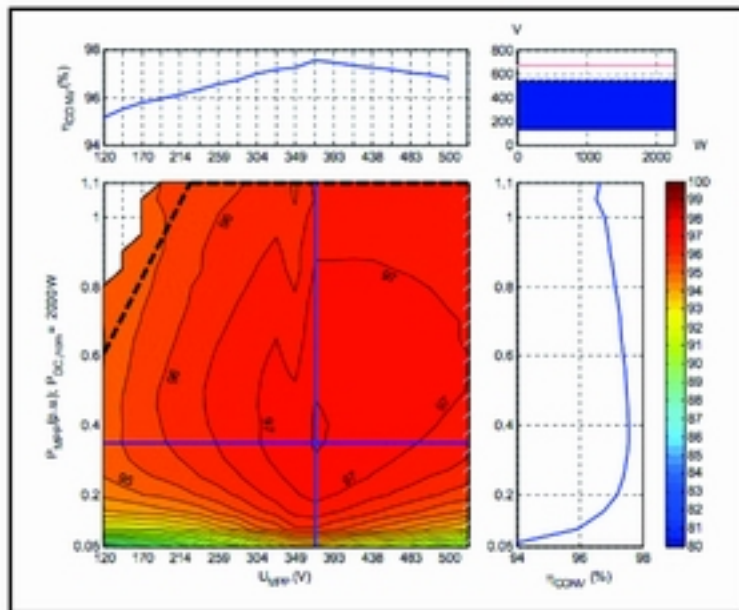
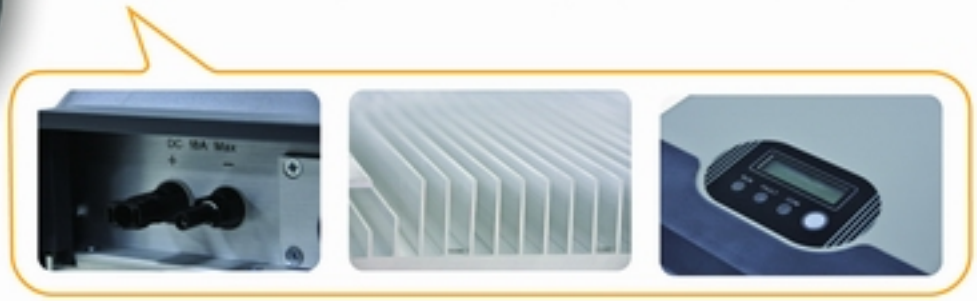


# Omnik New Energy Solar Inverter

## Omniksol-1.5k-TL / Omniksol-2.0k-TL



- Transformerless design, high efficiency (Max. 97.4%, Euro 96.6%)
- High MPP tracking accuracy (> 99.9%)
- Wide DC input range(120-500 Vdc), compatible with different module technologies
- Easy wiring, installing and operating
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty(10 years as option)



# Omnik New Energy Solar Inverter Technical Data



## Omniksol-1.5k-TL / Omniksol-2.0k-TL

Type		Omniksol-1.5k-TL	Omniksol-2.0k-TL
<b>Input (DC)</b>			
Max. PV-Generator Power	$P_{pv}$ [W]	1750	2300
Max DC Voltage	$V_{max(DC)}$ [V]		500
MPPT DC Voltage Range	$V_{mppt}$ [V]		120 - 450
Turn off DC Voltage	$V_{min(DC)}$ [V]		120
Max. DC Current	$I_{max(DC)}$ [A]		18
Nominal DC Current	$I_{N(DC)}$ [A]	14	16.5
Number of DC Connection			1
DC-Connection			Amphenol H4
Number of MPP trackers			1
Turn on Power	$P_{min(DC)}$ [W]		10
<b>Output (AC)</b>			
Max. AC Power	$P_{max(AC)}$ [W]	1650	2200
Nominal AC Power	$P_{N(AC)}$ [W]	1500	2000
Max. AC Current	$I_{max(AC)}$ [A]	9.0	12.0
Nominal AC Current	$I_{N(AC)}$ [A]	6.5	8.5
Power Connection			Single phase
Grid Voltage Range		According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777	
Grid Frequency Range		According to VDE 0126-1-1, RD1663, ENEL2010,C10/11,G83/1, AS4777	
Power Factor		0.99 (>30% of Full Load)	
Harmonic Distortion (THD) at Normal Output		<2%	
AC Connector		Plug-in connector	
<b>Power Consumption</b>			
Own Consumption in Operation	$P_{own(AC)}$ [W]		30
Power Consumption at Night	$P_{nig(AC)}$ [W]		0
Power Consumption at Standby	$P_{std(AC)}$ [W]		6
<b>Efficiency</b>			
Max. Efficiency (at 360VDC)			97.4%
Euro Efficiency (at 360VDC)			96.6%
MPPT Efficiency			99.9%
<b>Safety and Protection</b>			
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	
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	
<b>Normative Reference</b>			
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	
<b>Dimensions and Weight</b>			
Dimensions (WxHxD)	[mm]	330x425x130	
Weight	[kg]	13	
<b>Environmental Limits</b>			
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	
<b>General Data</b>			
Isolation Type		Transformerless	
Cooling Concept		Convection	
Housing		Stainless steel housing for inside and outside installation	
Mounting Information		Wall bracket	
LED Display		3	
LCD Display		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 years)	

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