Three Phase Inverter Second Generation

Omniksol-4k/5k/6k-TL2-TH





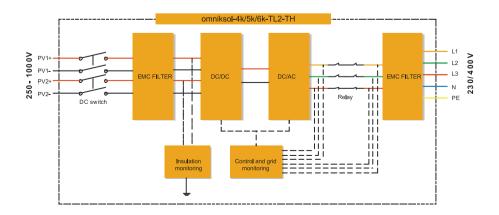




Product Features

Features	Advantages	Benefits	
Standard 10years warranty, 5-25 years optional	Longer life cycle	more stable and reliable	
Built-in GPRS as option	Plug and play	 No commissioning work to get real-time remote monitoring 	
sullt-in Wifi as option Free monitoring through our webportal		 More convenient monitoring solution without any charge 	
Longer life cycle with cuprum connection	 Very lower internal temperature 	Longer life cycle	
Smaller and lighter, only 18 kg	 Easy transportation and installation 	 Saving storage and installation space 	
High performance DSP for algorithm control	Faster CPU speed	 Higher inverter control accuracy 	
VDE-AR-N 4105 certification	 Adjustable active and reactive power 	 Meet the latest certification and regulations 	
New topology design	Maximum conversion efficiency up to 98.3%, Euro up to 97.7%		
Dual MPPT design	More flexible system design	Fit in various installation environments	
Multi-button touch interface	User friendly operation	Easy to operate	
LCD screen visible at night	Real-time data readable at night	 Real-time operating condition accessible 	
Have anti-shading function Suitable to complex installation environmen		 Increase the electricity generation of the syste in shading environment 	

Block Diagram



Technical Data

Omniksol-4k/5k/6k-TL2-TH

Туре	Omniksol-4k-TL2-TH	Omniksol-5k-TL2-TH	Omniksol-6k-TL2-TH	
Input (DC)				
Max. PV Power	4150W	5200W	6300W	
Max. DC Voltage	1000V	1000V	1000V	
Nominal DC Voltage	640V	640V	640V	
Operating MPPT Voltage Range	150-800V	150-800V	150-800V	
MPPT Voltage Range at Nominal Power	200-800V	230-800V	270-800V	
Start up DC Voltage	180V	180V	180V	
Turn off DC Voltage	150V	150V	150V	
Max. DC Current	11A/11A	11A/11A	11A/11A	
Max. Short Circuit Current for each MPP	T 16A/16A	16A/16A	16A/16A	
Number of MPP trackers	2	2	2	
Number of DC Connection for each MPF	T A:2/B:2	A:2/B:2	A:2/B:2	
DC Connection Type	MC4 connector	MC4 connector	MC4 connector	
Output (AC)		ine i comiector	ine i cominacio.	
Max. AC Apparent Power	4000VA	5000VA	6000VA	
Nominal AC Power(cos phi = 1)	4000W	5000W	6000W	
Nominal Grid Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V	
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	
Max. AC Current	6.1A	7.6A	9.2A	
Grid Voltage Range*	185-276V	185-276V	185-276V	
Grid Frequency Range*	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz	
	9 capacitive0.9 inductive	0.9 capacitive0.9 inductive	0.9 capacitive0.9 inductive	
Total Harmonic Distortion (THD)	<2%	<2%	<2%	
Feed in Starting Power	30W	30W	30W	
Night time Power Consumption	<1W	<1W	<1W	
Standby Consumption	<10W	<10W	<10W	
AC Connection Type	Plug-in connector	Plug-in connector	Plug-in connector	
Efficiency	. 149 001010.	. iag iii comicolo.	i lag iii saiiiissiai	
Max. Efficiency (at 640Vdc)	98.0%	98.2%	98.2%	
Euro Efficiency (at 640Vdc)	97.5%	97.5%	97.5%	
MPPT Efficiency	99.9%	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	Pı	VII / Mains III (According to IEC 62109	9-1)	
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,			
	EN 61000-0-1, EN 61000-0-3, EN 61000-0-2, EN 61000-0-4, EN 61000-3-2, EN 61000-3-12			
Grid Standard VDF		EI0-21, C10/11, G83/2, G59/3, UTE 0		
Physical Structure			, , , , , , , , , , , , , , , , , , , ,	
Dimensions (WxHxD)		352x421x154.5mm		
Weight	18 kg			
Environmental Protection Rating	IP 65 (According to IEC 60529)			
Cooling Concept	Natural convection			
Mounting Information	Wall bracket			
General Data				
Operating Temperature Range		-25°C to +60°C(derating above 45°C)	
Relative Humidity	0% to 98%, no condensation			
Max. Altitude (above sea level)	2000m			
Noise Level		< 40dB		
Isolation Type		Transformerless		
Display	3 LED, Backlight,20 x 4 Character LCD			
Data Communication Interfaces	RS485(WiFi, GPRS integrated)			
- ala Johnnanioadon Intoriacos	<u> </u>			
Computer Communication		LISR		
Computer Communication Standard Warranty		USB 10 Years (5-25 years optional)		

^{*}The AC voltage and frequency range may vary depending on specific country grid **4600VA, 4600W with VDE-AR-N 4105

Address: NO.63, Wenxin Road, SIP, China

Tel: +86-512-6956-8216 Fax: +86-512-6295-6682 E-mail: sales@omnik-solar.com Website: http://www.omnik-solar.com

