Three Phase Inverter

Omniksol-10k/13k-TL3

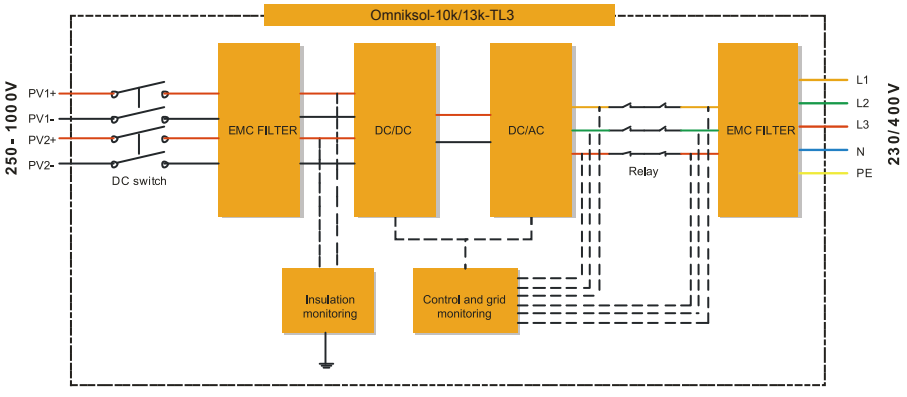
Omnik New Energy

10 year Warranty

Product Features

Features	Advantages	Benefits
5-25 years guarantee (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
Built-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 27 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
TF card update	Maximum conversion efficiency up to 97.8%, Euro up to 97%	Increase system payback
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 environment	Increase the electricity generation of the system in shading environment

Block Diagram



Technical Data

Omniksol-10k/13k-TL3

Type	Omniksol-10k-TL3	Omniksol-13k-TL3
Input (DC)		
Max. PV Power	10500W	13500W
Max. DC Voltage	1000V	1000V
Nominal DC Voltage	640V	640V
Operating MPPT Voltage Range	150-850V	150-850V
MPPT Voltage Range at Nominal Power	350-850V	450-850V
Start up DC Voltage	200V	200V
Turn off DC Voltage	150V	150V
Max. DC Current	20A/10A	20A/10A
Max. Short Circuit Current for each MPPT	24A/12A	24A/12A
Number of MPP trackers	2	2
Number of DC Connection for each MPPT	A:2/B:1	A:2/B:1
DC Connection Type	MC4 connector	MC4 connector
Output (AC)		
Max. AC Power (cos phi=1)	10000W	13000W
Nominal Grid Voltage	3/N/PE; 220/380V	3/N/PE; 220/380V
	3/N/PE; 230/400V	3/N/PE; 230/400V
	3/N/PE; 240/415V	3/N/PE; 240/415V
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz
Max. AC Current	17A	22A
Grid Voltage Range*	185-276V	185-276V
Grid Frequency Range*	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Power Factor	0.9i_1_0.9c	0.9i_1_0.9c
Total Harmonic Distortion (THD)	<3%	<3%
Feed in Starting Power	30W	30W
AC Connection Type	Plug-in connector	Plug-in connector
Efficiency		
Max Efficiency (at 360Vdc)	98.0%	98.0%
Euro Efficiency (at 360Vdc)	97.5%	97.5 %
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, EN61000-3-11, EN61000-3-12	
Grid Standard	VDE-AR-N-4105, VDE 0126-1-1, CEI0-21, C10/11, G83/2, G59/3, UTE C15-712-1, EN50438, AS4777, CQC	
Physical Structure		
Dimensions (WxHxD)	428x430x187mm	
Weight	27 kg	
Environmental Protection Rating	IP 65	
Cooling Concept	Internal fan convection	
Mounting Information	Wall bracket	
General Data		
Operating Temperature Range	-25°C to +60°C(derating above 45°C)	
Relative Humidity	0% to 100 %, 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 optional	
Guarantee	5-25 years optional	

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

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