Single Phase Inverter

Omniksol-2k/2.5k/3k-TL3-S

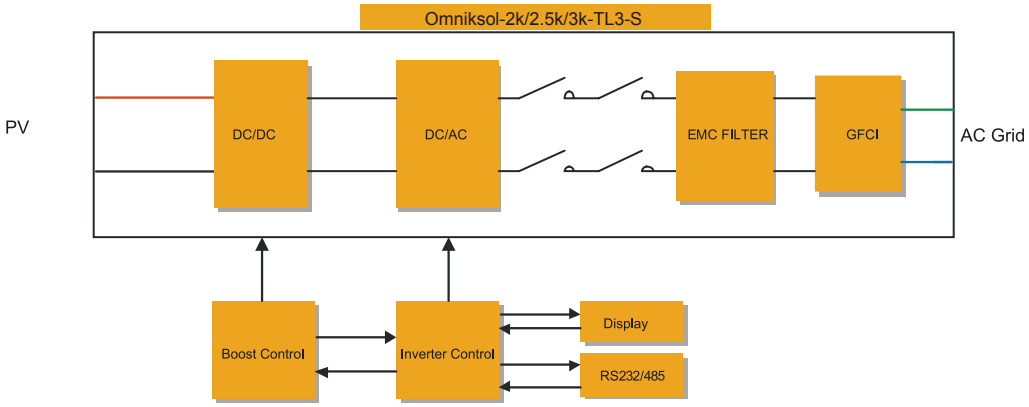
Omnik New Energy

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 fee for data transmission	More convenient monitoring solution without any charge
Circuit design based on temperature gradient	Very lower internal temperature	Longer life cycle
Smaller and lighter, only 8 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 97.2%, Euro up to 96.6%	Increase system payback ability
TF card update	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-2k/2.5k/3k-TL3-S

Type	Omniksol-2k-TL3-S	Omniksol-2.5k-TL3-S	Omniksol-3k-TL3-S
Input(DC)			
Max. PV Power	2100W	2650W	3200W
Max. DC Voltage	480V	480V	480V
Operating MPPT Voltage Range	120-400V	120-400V	120-400V
Start up DC Voltage	150V	150V	150V
Turn off DC Voltage	120V	120V	120V
Max. DC Current	10A	10A	10A
Max. Short Circuit Current for each MPPT	14A	14A	14A
Number of MPP trackers	1	1	1
Number of DC Connection for each MPPT	1	1	1
DC Connection Type	MC4 Connector	MC4 Connector	MC4 Connector
Output (AC)			
Nominal AC Power(cos phi = 1)	2000W	2500W	3000W
Nominal Grid Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. AC Current	10.0A	12.5A	15.0A
Grid Voltage Range*	185-276V	185-276V	185-276V
Grid Frequency Range*	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Power Factor	0.9i_1_0.9c	0.9i_1_0.9c	0.9i_1_0.9c
Total Harmonic Distortion (THD)	<3%	<3%	<3%
Night time Power Consumption	<1W	<1W	<1W
AC Connection Type	Plug-in connector	Plug-in connector	Plug-in connector
Efficiency			
Max. Efficiency (at 360Vdc)	97.2%	97.2%	97.2%
Euro Efficiency (at 360Vdc)	96.6%	96.6%	96.6%
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	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		
Grid Standard	VDE 0126-1-1，RD1663，C10/11，G83/2，UTE C15-712-1，AS4777，CQC,CEI0-21，EN50438		
Physical Structure			
Dimensions (WxHxD)	245x346x123mm		
Weight	8kg		
Environmental Protection Rating	IP 65		
Cooling Concept	Natural convection		
Mounting Information	Wall bracket		
General Data			
Operating Temperature	-25°C to +60°C(derating above 45°C)		
RangeRelative Humidity	0% to 100%, no condensation		
Max. Altitude (above sea level)	2000m		
Noise Level	< 40dB		
Isolation Type	Transformerless		
Display	2 LED, Backlight, 16 x 2 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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Address: NO.63, Weixin 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

Omnik New Energy Co., Ltd.