Single Phase Inverter

Omniksol-3k/3.68k/4k-TL3

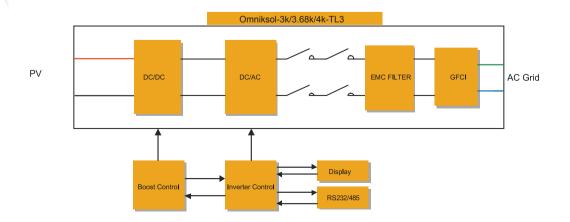




product features

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	Excellent heat dissipation	Longer life cycle	
Smaller and lighter, only 11.5 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 97.3%, Euro up to 96.7% 	Increase system payback ability	
TF card update	User friendly interface	Easy to operate	
LCD screen visible at night	Real-time data visible 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 Date

Omniksol-3k/3.68k/4k-TL3

Туре	Omniksol-3k-TL3	Omniksol-3.68k-TL3	Omniksol-4k-TL3		
Input(DC)					
Max. PV Power	3200W	3900W	4200W		
Max. DC Voltage	580V	580V	580V		
Operating MPPT Voltage Range	120-500V	120-500V	120-500V		
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	2	2	2		
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)	3000W	3680W	4000W		
Nominal Grid Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V		
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz		
Max. AC Current	15A	16A	20A		
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	1 lag in connector	r lag in connector	r rag in connector		
Max. Efficiency (at 360Vdc)	97.3%	97.3%	97.3%		
Euro Efficiency (at 360Vdc)	96.7%	96.7%	96.7%		
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)		288x380x130mm			
Weight	11.5kg				
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				
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^{*}The AC voltage and frequency range may vary depending on specific country grid

