Single Phase Inverter Second Generation

Omniksol-1k/1.5k/2k-TL2

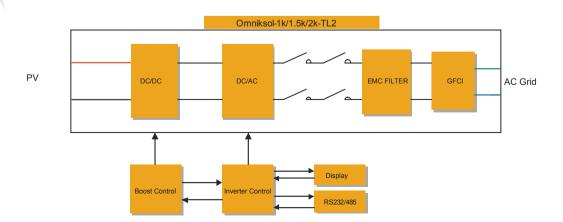




product features

Features		Advantages		Benefits	
Standard 10 years warranty,		Longer life cycle	•	More stable and reliable	
5-25 years optional					
Built-in GPRS as option	•	Plug and play	•	No commissioning work to get real-time remote monitori	
Built-in Wifi as option	•	Free monitoring fee for data transmission	•	More convenient monitoring solution without any charge	
External Inductor	•	Very lower internal temperature		Longer life cycle	
Smaller and lighter, 2kW only 9.6kg	•	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 97.7%,		Increase system payback ability	
		Euro up to 96.9%		increase system payback ability	
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	
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Have anti-shading function		Suitable to complex installation environment		in shading environment	

Block Diagram



Technical Data

Omniksol-1k/1.5k/2k-TL2

Туре	Omniksol-1k-TL2	Omniksol-1.5k-TL2	Omniksol-2k-TL2				
Input(DC)							
Max. PV Power	1300W	1750W	2300W				
Max. DC Voltage	500V	500V	500V				
Nominal DC Voltage	360V	360V	360V				
Operating MPPT Voltage Range	80-360V	120-450V	120-450V				
MPPT Voltage Range at Nominal Power	150-360V	150-450V	150-450V				
Start up DC Voltage	90V	150V	150V				
Turn off DC Voltage	80V	120V	120V				
Max. DC Current	16A	18A	18A				
Max. Short Circuit Current for each MPPT	20A	20A	20A				
Number of MPP trackers	1	1	1				
Number of DC Connection for each MPP1	Г 1	1	1				
DC Connection Type	MC4 Connector	MC4 Connector	MC4 Connector				
Output (AC)							
Max. AC Apparent Power	1100VA	1650VA	2200VA				
Nominal AC Power(cos phi = 1)	1000W	1500W	2000W				
Nominal Grid Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V				
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz				
Max. AC Current	5.8A	9.0A	11.0A				
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	0.95 capacitive0.95 inductive	0.95 capacitive0.95 inductive	0.95 capacitive0.95 inductive				
Total Harmonic Distortion (THD)	<2%	<2%	<2%				
· · · · · ·	30W	30W	30W				
Feed in Starting Power	<1W		<1W				
Night time Power Consumption	6W	<1W 6W					
Standby Consumption		-	6W				
AC Connection Type	Plug-in connector	Plug-in connector	Plug-in connector				
Efficiency		2= =2/	07.70				
Max. Efficiency (at 360Vdc)	97.7%	97.7%	97.7%				
Euro Efficiency (at 360Vdc)	96.7%	96.8%	96.9%				
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	P\	/ II / Mains III (According to IEC 6210	09-1)				
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-AR-N-4105,VDE 0126-1-1,	RD1699, C10/11, G83/2, UTE C15-7	712-1, AS4777, CEI 0-21, EN50438				
Physical Structure							
Dimensions (WxHxD)		343x281x150mm					
Weight	9.6kg						
Environmental Protection Rating	IP 65 (According to IEC 60529)						
Cooling Concept	Natural convection						
Mounting Information		Wall bracket					
General Data							
Operating Temperature		-20°C to +60°C(derating above 45°C	C)				
RangeRelative Humidity	0% to 98%, no condensation						
Max. Altitude (above sea level)	2000m						
Noise Level	< 40dB						
Isolation Type		Transformerless					
Display	3 LED, Backlight, 4 x 20 Character LCD						
Data Communication Interfaces	RS485(WiFi, GPRS integrated)						
Computer Communication	USB						
Standard Warranty	10 Years (5-25 years optional)						
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 $[\]ensuremath{^{\circ}}$ The AC voltage and frequency range may vary depending on specific country grid



