Single Phase Inverter

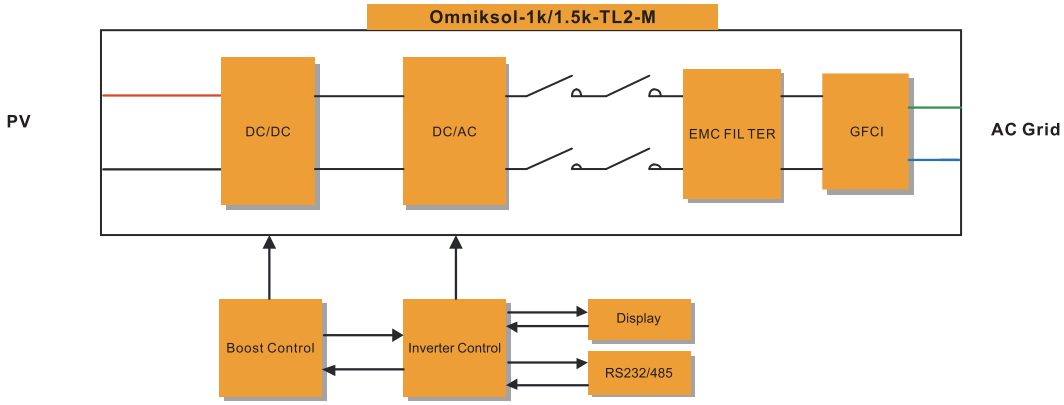
Omniksol-1k/1.5k-TL2-M

Omnik New Energy

Product Features

【Features】	【Advantages】	【Benefits】
·5-25 years warranty as optional	·Guaranteed product quality	·High ROI
·Built-in GPRS module as optional	·Plug and play	·Remote monitoring without setting
·Built-in WiFi module as optional	·Free monitoring fee for data transmission	·Remote monitoring without any charge
·Circuit design based on temperature gradient	·Lower internal temperature	·Longer life cycle
·Smaller and lighter,only 5 kg	·Easy transportation and installation	·Saving storage and installation space
·Meet VDE AR-N-4105 certification	·Adjustable active and reactive power	·Meet the lastest regulations
·Die casting technology	·larger heat dissipation area	·More reliable
·High performance DSP for algorithm control	·Faster CPU speed	·Higher inverter control accuracy
·New topology design	·Max. efficiency 96.5%, Euro efficiency 96.0%	·Increase system payback ability
·Single-button interface	·User friendly operation	·Easy to operate
·Power supply from AC side	·Query the state of inverter at night	·Real-time data readable for 24 hours
·Anti-shadow function	·Suitable to complex installation enviroment	·Increase the electricity generation of the system in shading environment

Block Diagram



Technical Data

Omniksol-1k/1.5k-TL2-M

Type	Omniksol-1k-TL2-M	Omniksol-1.5k-TL2-M
Input(DC)		
Max. PV Module Power [W]	1250	1750
Max. DC Voltage [V]	500	500
Nominal DC Voltage [V]	360	360
Operating MPPT Voltage Range [V]	60 - 400	60 - 400
MPPT Voltage Range at Nominal	155 - 400	155 - 400
Start up DC Voltage [V]	70	70
Turn off DC Voltage [V]	50	50
Max. DC Current [A]	10	10
Max. Short Circuit Current [A]	12	12
Number of MPP trackers	1	1
Number of DC Connection	1	1
DC Connection Type	Amphenol Connector	Amphenol Connector
Output(AC)		
Max. AC Appaeent Power [VA]	1100	1650
Nominal AC Power [W]	1000	1500
Nominal Grid Voltage [V]	220 / 230 / 240	220 / 230 / 240
Nominal Grid Frequency [Hz]	50 / 60	50 / 60
Max. AC Current [A]	5	7.5
Grid Voltage Range [V]*	185 - 276	185 - 276
Grid Frequency Range [Hz]*	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Power Factor	0.8i - 0.8c	0.8i - 0.8c
Total Harmonic Distortion (THD)	＜3%	＜3%
Night time Power Consumption [W]	＜1	＜1
AC Connection Type	Plug-in connector	Plug-in connector
Efficiency		
Max. Efficiency	96.5%	96.5%
Euro Efficiency	95.8%	96.0%
MPPT Efficiency	99.9%	99.9%
Safety and Protection		
Protection Functions	Array ground insulation resistance monitoring / Output over current protection / Residual current monitoring	
	Array polarity reverse protection / Output over/under voltage protection / Surge protection	
	Array over voltage protection / Output over/under frequency protection / Anti-island protection	
	Array over current protection / Output short circuit protection / Over temperature protection	
Protection Class	Ⅰ（According to IEC 62103）	
Overvoltage Category	PV Ⅱ / Mains Ⅲ（According to IEC 62109-1）	
Reference Standard		
Safety Standard	IEC/EN 62109	
EMC Standard	EN 61000-6-1,EN61000-6-3,EN 61000-6-2,EN61000-6-4,EN61000-3-2,EN 61000-3-3	
Grid Standard	VDE-AR-N 4105,VDE 0126-1-1,C10/11,G83/2,UTE C 15-721-1,AS4777,CEI 0-21, EN50438,NB/T32004	
Physical Structure		
Dimensions (WxHxD) [mm]	210 * 290 * 90	
Weight [kg]	5	
Environmental Protection Rating	IP 65（According to IEC 60529）	
Cooling Concept	Natural convection	
Mounting Information	Wall bracket	
General Data		
Operating Temperature Range [℃]	-25 to +60（derating above 45℃）	
Relative Humidity	0% to 100%,no condensation	
Max. Altitude (above sea level) [m]	2000	
Noise Level [dB]	＜40	
Isolation Type	Transformerless	
Display	2 LED,Backlight,2 * 16 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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2018/06 English V1

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