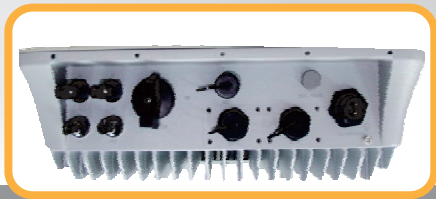


Single Phase Inverter

Omniksol-3k/3.68k/4k/4.6k/5k/6k-TL3-NS



Product Features

【Compact and Robust】

- Aluminum alloy die casting enclosure, permanently anti-rust
- IP 65, ensuring waterproof and dustproof during the 25-year service life
- Integrated streamlined case design with elegant appearance
- Light weight, only 11kg for 5kW inverter; dual-in-line wiring method, simplified one-person installation
- Industrial-grade high quality components, obtaining a 25-year design life

【High Conversion Efficiency, High Overload Capacity, More Power Generation Benefit】

- High conversion efficiency up to 97.8%
- Internal double boards design, without wiring terminal connection, low failure rate, ensuring long-term continuous power generation of the inverter
- Self-adaptive to the weak grid conservative mechanism, ride-through in harsh environment
- 10% output overload capacity, increasing power generation benefits by more than 20%
- 600 V withstand voltage, 90~550V wide MPPT range, supporting input over 30%

【Easy Operation, Intelligent Monitoring, Running Cost Reduction】

- Remote wireless transmission and cloud storage of power generation and operational data
- One-click APP configuration, real-time query via smart phone, convenient and efficient
- Support meter communication interface, more accurate power generation data, ensuring the profits
- Remote software upgrade, parameter setting and troubleshooting query, greatly reducing the cost of operation and maintenance
- Provided with the functions of grid remote power control, dry contact control, sound and light alarm

Technical Data

Omniksol-3k/3.68k/4k/4.6k/5k/6k-TL3-NS

Type	Omniksol-3k-TL3-NS	Omniksol-3.68k-TL3-NS	Omniksol-4k-TL3-NS	Omniksol-4.6k-TL3-NS	Omniksol-5k-TL3-NS	Omniksol-6k-TL3-NS
Input(DC)						
Max. PV Module Power [W]	3900	4800	5200	6000	6500	7800
Max. input voltage [V]	600	600	600	600	600	600
Start up DC Voltage [V]	120	120	120	120	120	120
MPPT Voltage Range at Nominal Power [V]	90 - 550	90 - 550	90 - 550	90 - 550	90 - 550	90 - 550
Nominal DC Voltage [V]	360	360	360	360	360	360
MPPT voltage range at full load [V]	150 - 480	200 - 480	200 - 480	230 - 480	250 - 480	300 - 480
Max. input current [A]	A:11 / B:11	A:11 / B:11	A:11 / B:11	A:11 / B:11	A:11 / B:11	A:11 / B:11
Max. short circuit current [A]	A:12 / B:12	A:12 / B:12	A:12 / B:12	A:12 / B:12	A:12 / B:12	A:12 / B:12
Number of MPP trackers	2	2	2	2	2	2
Output(AC)						
Rated output power [W]	3000	3680	4000	4600	4900 (AUS) 5000 (EUR)	6000
Max. AC Apparent Power [VA]	3000	3680	4000	4600	4900 (AUS) 5000 (EUR)	6000
Max. output current [A]	13	16	17.4	20	21.3 (AUS) 21.8 (EUR)	26.1
Nominal Grid Voltage [V]	Single phase 230					
Grid Voltage Range [V]	180 - 280					
Norminal Grid Frequency [Hz]	50 / 60					
Norminal Grid Frequency range [Hz]	45 - 55 / 55 - 65					
Total Harmonic Distortion (THD)	< 3% (rated output power)					
DC component	< 0.5% × rated output current					
Power factor	> 0.99 (rated output power)					
Adjustable range of power factor	0.8 leading ~ 0.8 lagging					
Efficiency						
Max. conversion efficiency	97.8%					
Euro Efficiency	97.3%					
Protection Functions						
Islanding protection	Available					
Output short-circuit protection	Available					
Leakage current protection	Available					
DC reverse polarity protection	Available					
Array ground insulation resistance monitoring	Available					
DC switch	Available					
Others						
Dimensions (W×D×H) [mm]	370 × 126.5 × 420					
Weight [Kg]	<11.5					
Operating temperature	-25°C + 60°C (> 45°C downgrading)					
Relative humidity	0% ~ 100%					
Max. Altitude (above sea level)	4000 m (> 2000 m downgrading)					
Environmental Protection Rating	IP65					
Cooling Concept	Natural convection					
Display	LED indicators					
Night time Power Consumption [W]	< 0.5 W					
Data Communication Interfaces	RS485*2, Wi-Fi, Ethernet					
Noise Level [dB]	<40dB					
Mounting Information	Wall-mounted					
DC Connection Type	MC4					
AC Connection Type	Plug and play					
Grid Standards	IEC/EN62109-1, IEC62109-2, AS/NZS 4777.2:2015, VDE 0126-1-1, VDE-AR-N-4105, VDE V 0124-100 (GE), ENEL 2010 Ed.2.1, CEI 0-21 (ITA), G83, G59 (UK), EN50438 (NLD)					

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

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