

Three Phase Inverter

Omniksol-5k/6k-TH/8k/10k/13k/16k-TL3-NS



Product Features

【Compact and Robust】

- Aluminum alloy die casting enclosure, permanently anti-rust
- IP65, ensuring waterproof and dustproof during the 25-year service life
- Integrated streamlined case design with elegant appearance
- Light weight, only 25kg for 16kW inverter
- Industrial-grade high quality components, obtaining a 25-year design life

【High Conversion Efficiency, More Power Generation Benefit】

- High conversion efficiency up to 98.65%
- Internal without electrolytic capacitor in main circuit, long design life, 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
- 1000V withstand voltage, 120-950V wide MPPT range, supporting input over 30%

【Easy Operation, Intelligent Monitoring, Running Cost Reduction】

- Remote wireless transmission and cloud storage of power generation and operation 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

Technical Data

Omniksol-5k/6k-TH/8k/10k/13k/16k-TL3-NS

Type	Omniksol-5k-TH-TL3-NS	Omniksol-6k-TH-TL3-NS	Omniksol-8k-TL3-NS	Omniksol-10k-TL3-NS	Omniksol-13k-TL3-NS	Omniksol-16k-TL3-NS
Input (DC)						
Max. PV Module Power [W]	6500	7800	10400	13000	16900	20800
Max. DC Voltage [V]	1000	1000	1000	1000	1000	1000
Start up DC Voltage [V]	180	180	180	180	250	250
MPPT Voltage Range @ Nominal Power [V]	120 - 950	120 - 950	120- 950	200 - 950	200 - 950	200 - 950
MPPT Voltage Range @ Full Load [V]	250 - 850	280 - 850	380 - 850	470 - 850	410 - 850	500 - 850
Max. DC Current [A]	11/11	11/11	11/11	11/11	11 * 2 / 11	11 * 2 / 11
Max. Short Circuit Current [A]	12/12	12/12	12/12	12/12	12 * 2 / 12	12 * 2 / 12
Number of MPP trackers	2	2	2	2	2	2
Number of DC Connection	A:1 / B:1	A:1 / B:1	A:1 / B:1	A:1 / B:1	A:2 / B:1	A:2 / B:1
Output (AC)						
Nominal AC Power [W]	5000	6000	8000	10000	13000	16000
Max. active power [W]	5000	6000	8000	10000	13000	16000
Max. apparent power [VA]	5000	6000	8000	10000	13000	16000
Max. AC Current [A]	7.3	8.7	11.6	14.5	18.9	23.2
Nominal Grid Voltage [V]			230 / 4000, 3W+N+PE			
Grid Voltage Range [V]*			176 - 276 / 304 - 480			
Nominal Grid Frequency [Hz]			50 / 60			
Grid Frequency Range [Hz]*			45 - 55 / 55 - 65			
Total Harmonic Distortion (THD)			<3% (rated power)			
Output current DC component			<0.5%I _n			
Power Factor			>0.99 (rated power)			
Adjustable range of power factor			0.8i - 0.8c			
Efficiency						
Max. Efficiency			98.7%			
Euro Efficiency			98.2%			
Protection Functions						
DC switch			Available			
DC reverse polarity protection			Available			
Array ground insulation resistance mon			Available			
Leakage current protection			Available			
Output over current protection			Available			
Output overvoltage protection			Available			
Anti-island protection			Available			
DC surge protection			Class III lightning protection			
AC surge protection			Class III lightning protection			
PID protection and repair			Optional			
General data						
Night time Power Consumption [W]			<1			
Isolation Type			Transformerless			
Environmental Protection Rating			IP65			
Operating Temperature Range [°C]			-25°C + 60°C (> 45°C downgrading)			
Relative Humidity			0% to 100%, no condensation			
Cooling Concept			Natural convection			
Max. Altitude (above sea level) [m]			4000m (>2000m downgrading)			
Dimensions (W*H*D) [mm]			515 × 435 × 166.5			
Weight [kg]			25			
Display			LED, BlueTooth (Optional)			
Data Communication Interfaces			RS485,WiFi,GPRS			
Reference Standard						
Safety Standard			NB/T 32004, IEC62109-1, IEC62109-2			
Grid Standards			NB/T 32004,VDE0126-1-1, VDE-AR-N 4105			

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

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Product data updates continuously. Any data change will not be informed exclusively.

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