



THREE PHASE ON-GRID INVERTER

ASN-(5-10)TL-G2

KEY FEATURES



EFFICIENT

- Maximum efficiency 98.6%
- Maximum string current of 20A, supporting 182/210 components
- Support 1.5 times over configuration on the DC side
- Starting voltage of 140V, starting work earlier to increase power generation



INTELLIGENCE

- Automatic voltage regulation technology, adaptive responsible for the power grid
- Active damping control algorithm, adaptive to weak current network environment
- Supports multiple communication methods including RS485, WiFi, 4G, and LAN
- Optional AFCI intelligent anti pull arc to reduce fire risk



FRIENDLY

- The pure thin film electric melting design of the busbar effectively improves its service life
- Support I-V curve scanning to accurately identify string anomalies
- Protection level IP66, suitable for various harsh working environments
- Ultra quiet design (<25dB)

	ASN-5TL-G2	ASN-6TL-G2	ASN-8TL-G2	ASN-10TL-G2
Input DC				
Max. Input Voltage	1100V			
Rated Voltage	620V			
Start-Up Voltage	140V			
MPPT Voltage Range	140-1000V			
Max. Input Current	20A/20A			
Max. Short Circuit Current	25A/25A			
MPPT Number	2			
Max. Input Strings Number	2			
Output AC				
Rated output power	5kW	6kW	8kW	10kW
Max.apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA
Max.output power	5.5kW	6.6kW	8.8kW	11kW
Rated grid voltage	220V/380V,230V/400V,3/N/PE			
Grid voltage range	162-300V(Phase voltage),280-520V(Line voltage)			
Rated grid frequency	50 Hz/60 Hz			
Rated grid output current	7.2A	8.7A	11.5A	14.4A
Max.output current	7.9A	9.5A	12.7A	15.9A
Power factor	1 (0.8 Leading ~ 0.8Lagging)			
THDi	<3%			
Efficiency				
Max. efficiency	98.6%			
EU efficiency	98.3%			
MPPT efficiency	99.8%			
Protection				
Integrated DC Switch	Yes			
DC Rever-Polarity Protection	Yes			
Anti-Islanding Protection	Yes			
Short Circuit Protection	Yes			
Output Over Current Protection	Yes			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Insulation Impedance Detection	Yes			
Ground fault monitoring	Yes			
Residual leakage current detection	Yes			
Temperature protection	Yes			
AC Over voltage protection	Yes			
DC Over current protection	Yes			
I/V Curve scanning	Yes			
24-hour load monitoring	Optional			
Anti-backflow	Optional			
Integrated AFCI (DC arc-fault circuit protection)	Optional			
General Data				
Dimensions(W*H*D)	448*336*174mm			
Weight	12.6kg			
Self Consumption(night)	<1W			
Operating Temperature Range	-30...+60°C			
Cooling Concept	Natural Cooling			
Max. Operation Altitude	4000m (Derating above 3000m)			
Relative Humidity	0~100%			
Ingress Protection	IP66			
Topology Structure	Transformerless			
Grid connection standard/ Safety/EMC standard	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12, NB/T32004, EN 50549-1			
Type of DC terminal	MC4 connector			
Type of AC terminal	Quick connection plug			
Display&Communication				
Display	LED+Bluetooth+APP (Optional:LCD)			
Communication Interface	RS485,Optional:WIFI,4G,LAN			

Note: The specification and key features described in this datasheet may deviate slightly and are not guaranteed. AUXSOL reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the latest version of the datasheet, any commercial contracts that may be signed will be based on the most recent version at the moment of signing the contract.