

## AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 30000+ employees keep AUX fast development for recent years.



## R&D Strength

AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-oriented, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadership in solar industry.



**6** R&D centers



**50+**  
Top experts in the industry



**20117** Patents



**100** million  
Average annual investment



**3** CNAS labs



**5474** R&D engineers

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**THREE PHASE  
ON-GRID INVERTER**

5-15kW-G2



# THREE PHASE ON-GRID INVERTER

ASN-(5-15)TL-G2

## KEY FEATURES



### EFFICIENT

- Maximum efficiency 98.6%, MPPT maximum efficiency 99.8%
- Maximum string current 20A, compatible with 700W+ modules
- Supports 1.5x oversizing on the DC side
- Start-up voltage of 140V



### INTELLIGENCE

- Advanced automatic voltage regulation technology ensures seamless adaptation to complex power grid conditions
- Optional 24/7 load monitoring functionality for continuous system insights
- Integrated intelligent management system for monitoring and optimization



### FRIENDLY

- Quiet Operation: Features a noise-reducing design with sound levels below 35 dB
- Flexible Communication Options: Supports RS485, WiFi, 4G, LAN
- One-Tap Cloud Access: Seamlessly integrates with AUXSOL cloud via QR code, enabling remote upgrades and configuration



### SAFE AND RELIABLE

- IP66 Protection, high protection level suitable for harsh environments
- Support I-V curve scanning, precisely detects string abnormalities
- Intelligent AFCI to reduce fire risks
- Designed with pure film capacitors on the busbar, significantly enhancing product lifespan
- Supports anti-backflow

	ASN-5TL-G2	ASN-6TL-G2	ASN-8TL-G2	ASN-10TL-G2	ASN-12TL-G2	ASN-15TL-G2
<b>Input DC</b>						
Max. input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW
Max. Input Voltage	1100V					
Rated Voltage	620V					
Start-Up Voltage	140V					
MPPT Voltage Range	140-1000V					
Max. Input Current	20A/20A					26A/20A
Max. Short Circuit Current	25A/25A					32A/25A
MPPT Number	2					2
Max. Input Strings Number	2					3
<b>Output AC</b>						
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kW
Max. output power	5.5kW	6.6kW	8.8kW	11kW	13.2kW	16.5kW
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	17.3A	21.7A
Max. output current	7.9A	9.5A	12.7A	15.9A	19.1A	23.8A
Power factor	1 (0.8 Leading ~ 0.8Lagging)					
THDi	<3%					
<b>Efficiency</b>						
Max. efficiency	98.6%					
EU efficiency	98.3%					
MPPT efficiency	99.8%					
<b>Protection</b>						
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	Optional					
24-hour load monitoring	Optional					
Anti-backflow	Yes					
Integrated AFCI (DC arc-fault circuit protection)	Yes					
<b>General Data</b>						
Dimensions(W*H*D)	448*336*174mm					
Weight	12.6kg					15.1kg
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,CGC/GF 035-2013,VDE-AR-N 4105					
Type of DC terminal	MC4 connector					
Type of AC terminal	Quick connection plug					
<b>Display&amp;Communication</b>						
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.