

## 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**

50-80kW-G2

# THREE PHASE ON-GRID INVERTER



ASN-(50-80)TL-G2

## KEY FEATURES



### EFFICIENT

- Maximum efficiency 98.6%, MPPT maximum efficiency 99.8%
- Maximum MPPT current 48A, compatible with 700W+ modules
- Supports 1.5x oversizing on the DC side
- Start-up voltage of 180V



### INTELLIGENCE

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



### FRIENDLY

- 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



### ECONOMICAL AND COST-SAVING

- Intelligent string monitoring, enabling quick identification of faulty strings
- Supports high-power module integration, reducing system installation and cable costs

	ASN-50TL-G2	ASN-60TL-G2	ASN-70TL-G2	ASN-75TL-G2	ASN-80TL-G2
<b>Input DC</b>					
Max.input power	75kW	90kW	105kW	112.5kW	120kW
Max.input voltage	1100V				
Rated voltage	630V				
Start-up voltage	180V				
MPPT voltage range	150-1000V				
Max.input current	40A*4				48A*4
Max.short circuit current	50A*4				60A*4
MPPT number	4				4
Max. input strings number	8				12
<b>Output AC</b>					
Rated output power	50kW	60kW	70kW	75kW	80kW
Max.apparent output power	55kVA	66kVA	77kVA	82.5kVA	88kVA
Max.output power	55kW	66kW	77kW	82.5kW	88kW
Rated grid voltage	220V/380V,230V/400V,3/N/PE				
Grid voltage range	162-300V(Phase voltage),280-520V(Line voltage)				
Rated grid frequency	50Hz/60Hz				
Rated grid output current	72.2A	86.6A	101A	108.3A	115.5A
Max.output current	79.4A	95.3A	111A	119.1A	127A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
<b>Efficiency</b>					
Max. efficiency	98.60%				
EU efficiency	98.30%				
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				
Strings monitoring	Yes				
24-hour load monitoring	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Yes				
Integrated PID recovery	Optional				
Anti-backflow	Yes				
<b>General Data</b>					
Dimensions (W*H*D)	735*530*285mm				
Weight	60kg				
Self consumption(night)	< 1W(Without 24h load monitoring)				
Operating temperature range	-30...+60°C				
Cooling concept	Fan-cooling				
Max. operation altitude	4000m (Derating above 3000m)				
Relative humidity	0~100%				
Ingress protection	IP66				
Topology structure	Transformerless				
Grid connection standard	NB/T32004,EN 50549-1,IEC 63027,PORTARIA N°515,CGC/GF 035-2013				
Safety/EMC standard	IEC/EN 62109-1/2,EN IEC 61000-6-2/4,EN IEC 61000-3-11,EN 61000-3-12				
Type of DC terminal	MC4 connector				
Type of AC terminal	OT terminal				
<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.