

AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 40000+ employees keep AUX fast development for recent years.

39 <sup>Years</sup>	\$12.4 <sup>Billion</sup>	5	\$9.6 <sup>Billion</sup>	500	40000+
History	Revenue in 2024	Business Industries	Assets	China's Top	Employees

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



21261 Patents



100 million  
Average annual investment



3 CNAS labs



5474 R&D  
engineers

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SINGLE PHASE  
ON-GRID INVERTER  
3.6-6kW-PLUS



# SINGLE PHASE ON-GRID INVERTER

ASN-(3.6-6)SL-PLUS

## KEY FEATURES



**High Efficiency**  
» Supports oversizing 1.5x DC/AC



**Smart**  
» Ultra-wide grid voltage design with automatic voltage regulation technology ensures uninterrupted operation even under unstable grid conditions



**User-Friendly**  
» Silent design (<35dB)



**Safe & Reliable**  
» IP66 protection rating, adaptable to harsh operating environments  
» Intelligent AFCI reduces fire risk



**Economical & Cost-Saving**  
» No power derating at 45°C, more reliable with more yield

	ASN-3.6SL-PLUS	ASN-4SL-PLUS	ASN-4.6SL-PLUS	ASN-5SL-PLUS	ASN-6SL-PLUS
Input DC					
Max.input power	5.4kW	6kW	6.9kW	7.5kW	9kW
Max.input voltage	550V				
Rated voltage	380V				
Start-up voltage	80V				
MPPT voltage range	80-520V				
Max.input current	16A/16A				
Max.short circuit current	20A/20A				
MPPT number	2				
Max. input strings number	2				
MPPT Range Full Load	180-500V	190-500V	200-500V	210-500V	230-500V
Output AC					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max.apparent output power	3.96kVA	4.4kVA	5.06kVA	5.5kVA	6kVA
Max.output power	3.96kW	4.4kW	5.06kW	5.5kW	6kW
Rated grid voltage	1/N/PE,220V/230V/240V				
Rated grid frequency	50Hz/60Hz				
Rated grid output current	16.4A	18.2A	20.9A	22.7A	27.3A
Max.output current	18A	20A	23A	25A	27.3A
Power factor	1 (0.8 Leading ~ 0.8Lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	97.5%				
EU efficiency	97.0%				
Protection					
Integrated DC switch	Yes				
DC reverse-polarity protection	Yes				
Anti-islanding protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Strings monitoring	Yes				
DC Surge protection	Type II				
AC Surge protection	Type II				
Insulation impedance detection	Yes				
Residual leakage current detection	Yes				
Temperature protection	Yes				
AC Over voltage protection	Yes				
DC Over current protection	Yes				
Anti-backflow	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Optional				
General Data					
Dimensions(W*H*D)	335*430*152mm				
Weight	11Kg				
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	EN 50549-1,IEC 61727,IEC 62116,IEC 61683,UNE 217001,UNE 217002,NTS-631,PORTARIA N°515,IEC 63027				
Safety/EMC standard	IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12				
Type of DC terminal	MC4 connector				
Type of AC terminal	Quick connection plug				
Display&Communication					
Display	LCD+LED+Bluetooth+APP				
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.