

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.



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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**THREE PHASE
ON-GRID INVERTER**

35-75kW-LV

THREE PHASE ON-GRID INVERTER



ASN-(35-75)TL-LV

KEY FEATURES



High Efficiency

- » Single MPPT supports a maximum current of 36A, single string supports a maximum current of 18A, compatible with 210 large modules.
- » Supports oversizing 1.5x DC/AC
- » 195V low start-up voltage enables early startup and more energy generation



Smart

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



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-35TL-LV	ASN-40TL-LV	ASN-45TL-LV	ASN-50TL-LV	ASN-60TL-LV	ASN-70TL-LV	ASN-75TL-LV
Input DC							
Max.input power	52.5kW	60kW	67.5kW	75kW	90kW	105kW	112.5kW
Max.input voltage	800V			800V			
Rated voltage	420V			420V			
Start-up voltage	195V			195V			
MPPT voltage range	180-800V			180-800V			
Max.input current	32A*4		32A*5		36A*8		
Max.short circuit current	40A*4		40A*5		50A*8		
MPPT number	4		5		8		
Max. input strings number	8		10		16		
Output AC							
Rated output power	35kW	40kW	45kW	50kW	60kW	70kW	75kW
Max.apparent output power	38.5kVA	44kVA	49.5kVA	55kVA	60kVA	70kVA	75kVA
Max.output power	38.5kW	44kW	49.5kW	55kW	/		
Rated grid voltage	127/220V, 3/N/PE				127/220V, 3/N/PE		
Rated grid frequency	50Hz/60Hz				50Hz/60Hz		
Rated output current	91.9A	105A	118.1A	131.2A	157.5A	183.7A	196.8A
Max.output current	101A	115.5A	130A	144.3A	157.5A	183.7A	196.8A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				>0.99 (0.8 leading ... 0.8 lagging)		
THDi	<3%				<3%		
Efficiency							
Max. efficiency	98.5%	98.6%		98.5%			
EU efficiency	98.3%	98.3%		98.3%			
Protection							
Integrated DC switch	Yes				Yes		
DC rever-polarity protection	Yes				Yes		
Anti-islanding protection	Yes				Yes		
Short circuit protection	Yes				Yes		
Output over currentprotection	Yes				Yes		
DC Surge protection	Type II				Type II		
AC Surge protection	Type II,Optional:Type I				Type II,Optional:Type I		
Insulation impedance detection	Yes				Yes		
Ground fault monitoring	Yes				Yes		
Residual leakage current detection	Yes				Yes		
Temperature protection	Yes				Yes		
Strings monitoring	Yes				Yes		
AC Over voltage protection	Yes				Yes		
DC Over current protection	Yes				Yes		
I/V Curve scanning	Yes				Yes		
Integrated AFCI (DC arc-fault circuit protection)	Optional				Optional		
Antibackflow	Optional				Optional		
General Data							
Dimensions (W*H*D)	1007*668*357mm				1007*668*357mm		
Weight	≤75kg		82kg		94kg		
Self consumption(night)	<2W				<2W		
Operating temperature range	-30...+60°C				-30...+60°C		
Cooling concept	Fan-cooling				Fan-cooling		
Max. operation altitude	4000m (Derating above 3000m)				4000m (Derating above 3000m)		
Relative humidity	0-100%				0-100%		
Ingress protection	IP66				IP66		
Topology structure	Transformerless				Transformerless		
Grid connection standard	NB/T32004,EN50549-1, PN-EN 50549-1,PSE ,PTPIREE,RD647,RD413.RD1699,UNE 217001/2,NTS631,NC RfG						
Safety/EMC standard	EN/IEC 62109-1/-2,EN/IEC 61000-6-2/4,EN/IEC 61000-3-11, EN/IEC 61000-3-12						
Type of DC terminal	MC4 connector						
Type of AC terminal	OT terminal						
Display&Communication							
Display	LED+Bluetooth+APP						
Communication Interface	RS485,Optional:WIFI,4G,PLC						

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.