

THREE PHASE ON-GRID INVERTER

ASN-(35-75)TL-LV



KEY FEATURES



High Efficiency

- » Max. MPPT current 36A, suitable for high-current/double-sided components
- » 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
- » PID repair function to enhance system power generation (Optional)



User-Friendly

- » Support RS485, WiFi, 4G, LAN, Suspec different communication methods
- » Quick sweep access to AUXSOL Cloud, support remote upgrade and setup



Safe & Reliable

- » Supports I-V curve scanning, accurately identifying string anomalies
- » Intelligent AFCI reduces fire risk (Optional)



Economical & Cost-Saving

- » Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
- » 8-way MPPT design to accommodate multi-orientation roofs
- » Meter can realize multi-machine backflow prevention function

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

Years

History

\$12.4

Billion

Revenue in 2024

5

Business Industries

\$9.6

Billion

Assets

500

China's Top

40000+

Employees

AUXSOL

WIN A GREEN FUTURE TOGETHER

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	ASN-35TL-LV	ASN-40TL-LV	ASN-45TL-LV	ASN-50TL-LV	ASN-60TL-LV	ASN-70TL-LV	ASN-75TL-LV
PV INPUT							
Max. PV input power	52.5kW	60kW	67.5kW	75kW	90kW	105kW	112.5kW
Max. PV input voltage				800V			
Rated PV input voltage				420V			
Start-up voltage				195V			
MPPT voltage range				180-800V			
Max. PV input current	32A*4			32A*5	36A*8		
Max. short circuit current	40A*4			40A*5	50A*8		
MPPT number/Max. input strings number	4/8			5/10	8/16		
AC OUTPUT							
Rated output power	35kW	40kW	45kW	50kW	60kW	70kW	75kW
Max. apparent output power	38.5kVA	44kVA	49.5kVA	55kVA	60kVA	70kVA	75kVA
Rated output voltage	127/220V,3L/N/PE						
Output voltage range	92-173(Phase voltage),160-300V(Line voltage)						
Rated output frequency/ frequency range	50/60Hz(±5Hz)						
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)						
THDi	<3%						
EFFICIENCY							
MPPT efficiency				99.80%			
Max. efficiency				98.50%			
EU efficiency				98.30%			
PROTECTION							
Integrated DC switch				Yes			
DC rever-polarity protection				Yes			
String monitoring				Yes			
Insulation impedance detection				Yes			
Residual leakage current detection				Yes			
Ground fault monitoring				Yes			
Short circuit protection				Yes			
Anti-islanding protection				Yes			
DC/AC surge protection				DC:Type II;AC:Type II(Optional:Type I)			
DC arc-fault circuit protection				Yes			
I/V curve scanning				Yes			
GENERAL							
Operating temperature range				-30...+60 C			
Max. operation altitude				4000m (Derating above 3000m)			
Relative humidity				0-100%			
Cooling concept				Smart Fan Cooling			
Ingress protection				IP66			
Topology				Transformerless			
Night self consumption				<2W			
Dimensions (W*H*D)				1007*668*357mm			
Weight	≤75kg			82kg	94kg		
COMMUNICATION							
Display				LED+Bluetooth+APP (Optional:LCD)			
Communication				RS485,Optional:WIFI,4G,LAN			
CERTIFICATION							
Grid standards	EN50549-1, PN-EN 50549-1,PSE,PTPIREE,RD647,RD413,RD1699,UNE 217001/2,NTS631,NC RfG,INMETRO 140,INMETRO 515						
Safety/EMC	IEC/EN 62109-1/2,EN IEC61000-6-2/4,EN IEC 61000-3-11/12						

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.