

THREE PHASE ON-GRID INVERTER

ASN-(90-110)TL



KEY FEATURES



High Efficiency

- » Max. MPPT current 32A, compatible with 210 large modules
- » 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
- » Supports 24-hour load uninterruptible power monitoring (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
- » No power derating at 45°C, more reliable with more yield

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	\$12.6 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-90TL	ASN-99TL	ASN-100TL	ASN-110TL
PV INPUT				
Max. PV input power	135kW	150kW	150kW	165kW
Max. PV input voltage	1100V			
Rated PV input voltage	620V			
Start-up voltage	195V			
MPPT voltage range	180-1000V			
Max. PV input current	6*32A	10*32A		
Max. short circuit current	6*50A	10*50A		
MPPT number/Max. input strings number	6/12	10/20		
AC OUTPUT				
Rated output power	90kW	99kW	100kW	110kW
Max. apparent output power	99kVA	99kVA	110kVA	121kVA
Rated output current	130A	143A	144.5A	158.8A
Max. output current	143A	143A	158.8A	174.6A
Rated output voltage	220V/380V,230V/400V,3L/N/PE			
Output voltage range	162-300V(Phase voltage), 280-520V(Line voltage)			
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)			
Power factor	>0.99 (0.8 leading ... 0.8 lagging)			
THDi	<3%			
EFFICIENCY				
MPPT efficiency	99.80%			
Max. efficiency	98.60%			
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	Optional			
I/V curve scanning	Yes			
GENERAL				
Operating temperature range	-30...+60C			
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*341mm			
Weight	88kg			
COMMUNICATION				
Display	LED+Bluetooth+APP			
Communication	RS485,Optional:WIFI,4G,PLC			
CERTIFICATION				
Grid standards	EN 50549-1,IEC 61727/62116,IEC 61683, VDE 4105,VDE 4110,NCRfG,PEA,DEWA,IRR,NRS 097,UNE 217001,UNE 217002,NTS-631			
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.