






THREE PHASE ON-GRID INVERTER

ASN-(20-25)TL-LV



KEY FEATURES

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High Efficiency
 - » MPPT supports max. current 40A, single string supports max. current of 20A, compatible with 210 large modules
 - » 180V low start-up voltage enables early startup and more energy generation
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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)
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User-Friendly
 - » Support RS485, WiFi, 4G, LAN, Suspec different communication methods
 - » Quick sweep access to AUXSOL Cloud, support remote upgrade and setup
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Safe & Reliable
 - » Supports I-V curve scanning, accurately identifying string anomalies
 - » Intelligent AFCI reduces fire risk
 - » Pure film capacitors with a 25-year design lifespan
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Economical & Cost-Saving
 - » Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
 - » 4-way MPPT design to accommodate multi-orientation roofs

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.

40 Years History	\$11.8 Billion Revenue in 2025	5 Business Industries
\$9.6 Billion Assets	500 China's Top	40000+ Employees

AUXSOL

WIN A GREEN FUTURE TOGETHER

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	ASN-20TL-LV	ASN-25TL-LV
PV INPUT		
Max. PV input power	30kW	37.5kW
Max. PV input voltage	800V	
Rated PV input voltage	360V	
Start-up voltage	180V	
MPPT voltage range	160-800V	
Max. PV input current	40A/40A/20A/20A	
Max. short circuit current	50A/50A/25A/25A	
MPPT number/Max. input strings number	4/6	
AC OUTPUT		
Rated output power	20kW	25kW
Max. apparent output power	22kVA	27.5kVA
Rated output current	52.5A	65.6A
Max. output current	57.7A	72.2A
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)	
Power factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi	<3%	
EFFICIENCY		
MPPT efficiency	99.80%	
Max. efficiency	98.60%	
EU efficiency	98.00%	
PROTECTION		
Integrated DC switch	Yes	
DC reverse-polarity protection	Yes	
String monitoring	Optional	
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	
PID recovery	Optional	
DC arc-fault circuit protection	Yes	
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	<1W	
Dimensions (W*H*D)	568*443*228mm	
Weight	33.8kg	
COMMUNICATION		
Display	LED+Bluetooth+APP (Optional:LCD)	
Communication	RS485,Optional:WIFI,4G,LAN	
CERTIFICATION		
Grid standards	EN50549-1,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.