

THREE PHASE ON-GRID INVERTER

ASN-(90-110)TL-PLUS



KEY FEATURES



High Efficiency

- » MPPT supports max. current 40A, single string supports max. current 20A, 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

\$12.4

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-90TL-PLUS | ASN-100TL-PLUS | ASN-110TL-PLUS |
|--|---|----------------|----------------|
| PV INPUT | | | |
| Max. PV input power | 135kW | 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 | 8*40A | | |
| Max.short circuit current | 8*50A | | |
| MPPT number/Max. input strings number | 8/16 | | |
| AC OUTPUT | | | |
| Rated output power | 90kW | 100kW | 110kW |
| Max. apparent output power | 99kVA | 110kVA | 121kVA |
| 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) | | |
| Rated output current | 130A | 144.5A | 158.8A |
| Max.output current | 143A | 158.8A | 174.6A |
| Power factor | >0.99 (0.8 leading ... 0.8 lagging) | | |
| THDi | <3% | | |
| EFFICIENCY | | | |
| MPPT efficiency | 99.80% | | |
| Max. efficiency | 98.65% | | |
| EU efficiency | 98.35% | | |
| 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 | Optional | | |
| 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*341mm | | |
| Weight | 80kg | | |
| COMMUNICATION | | | |
| Display | LED+Bluetooth+APP | | |
| Communication | RS485,Optional:WIFI,4G | | |
| CERTIFICATION | | | |
| Grid standards | EN 50549-1,IEC 61727/ 62116,IEC 61683,PEA | | |
| Safety/EMC | IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,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.