

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

Ningbo AUX Solar Import & Export Co., Ltd.
No.17Fenglin Road, Cicheng Town,
Jiangbei District, Ningbo City, zhejiang Province, China



✉ info@auxsol.com
🌐 www.auxsol.com
☎ +86 0574-8765 2201



**THREE PHASE
ON-GRID INVERTER**

33-40kW

THREE PHASE ON-GRID INVERTER



ASN-(33-40)TL

KEY FEATURES



High Efficiency

- » Single MPPT supports a maximum current of 40A, single string supports a maximum current of 20A, compatible with 210 large modules
- » Supports oversizing 1.5x DC/AC
- » 180V 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
- » Pure film capacitors with a 25-year design lifespan.



Economical & Cost-Saving

- » No power derating at 45°C, more reliable with more yield

| | ASN-33TL | ASN-36TL | ASN-40TL |
|---|--|-----------|-----------------|
| Input DC | | | |
| Max.input power | 49.5kW | 54kW | 60kW |
| Max.input voltage | | 1100V | |
| Rated voltage | | 600V | |
| Start-up voltage | | 180V | |
| MPPT voltage range | | 160-1000V | |
| Max.input current | 40A/40A/20A | | 40A/40A/20A/20A |
| Max.short circuit current | 50A/50A/25A | | 50A/50A/25A/25A |
| MPPT number | 3 | | 4 |
| Max. input strings number | 5 | | 6 |
| Output AC | | | |
| Rated output power | 33kW | 36kW | 40kW |
| Max.apparent output power | 36.3kVA | 39.6kVA | 44kVA |
| Max.output power | 36.3kW | 39.6kW | 44kW |
| Rated grid voltage | 220V/380V,230V/400V,3/N/PE | | |
| Grid voltage range | 162-300V(Phase voltage),280-520V(Line voltage) | | |
| Rated grid frequency | 50Hz/60Hz | | |
| Rated grid output current | 47.6A | 52A | 57.7A |
| Max.output current | 52.4A | 57.2A | 63.5A |
| Power factor | 1 (0.8 leading ... 0.8 lagging) | | |
| THDi | <3% | | |
| Efficiency | | | |
| Max. efficiency | 98.6% | | |
| EU efficiency | 98.3% | | |
| MPPT efficiency | 99.8% | | |
| Protection | | | |
| Integrated DC switch | Yes | | |
| DC rever-polarity protection | Yes | | |
| Anti-islanding protection | Yes | | |
| Short circuit protection | Yes | | |
| Output over current protection | Yes | | |
| DC Surge protection | Type II | | |
| AC Surge protection | Type II | | |
| Insulation impedance detection | Yes | | |
| Ground fault monitoring | Yes | | |
| Residual leakage current detection | Yes | | |
| Temperature protection | Yes | | |
| AC Over voltage protection | Yes | | |
| DC Over current protection | Yes | | |
| Strings monitoring | Optional | | |
| 24-hour load monitoring | Optional | | |
| Integrated AFCI (DC arc-fault circuit protection) | Optional | | |
| Integrated PID recovery | Optional | | |
| Anti-backflow | Optional | | |
| General Data | | | |
| Dimensions (W*H*D) | 568*443*228mm | | |
| Weight | 35kg | | |
| Self consumption(night) | <1W | | |
| Operating temperature range | -30...+60°C | | |
| Cooling concept | fan-cooling | | |
| Max. operation altitude | 4000m (Derating above 3000m) | | |
| Relative humidity | 0-100% | | |
| Ingress protection | IP66 | | |
| Topology structure | Transformerless | | |
| Grid connection standard | NB/T32004,EN 50549-1,IEC 63027,CGC/GF 035-2013,PORTARIA N°515 | | |
| Safety/EMC standard | IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12 | | |
| Type of DC terminal | MC4 connector | | |
| Type of AC terminal | OT terminal | | |
| Display&Communication | | | |
| Display | LED+Bluetooth+APP(Optional:LCD) | | |
| Communication Interface | RS485,Optional:WIFI,4G,LAN | | |

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.