

THREE PHASE ON-GRID INVERTER

ASN-40TL



KEY FEATURES



High Efficiency

- » Max. Efficiency 98.6%, MPPT Max. Efficiency 99.8%
- » 160V 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
- » 3-way MPPT design to accommodate multi-orientation roofs



Safe & Reliable

- » Supports I-V curve scanning, accurately identifying string anomalies
- » Intelligent AFCI reduces fire risk (Optional)
- » Pure film capacitors with a 25-year design lifespan



Economical & Cost-Saving

- » Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
- » Supports high power component access, low system installation and cable costs

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	\$12 Billion Revenue in 2025	5 Business Industries
\$11.2 Billion Assets	500 China's Top	40000+ Employees

AUXSOL

Advance Unlimited X-tra Green Power

Ningbo AUX Solar Import & Export Co., Ltd.

No. 518, Xinmei Road, Yinzhou District, Ningbo City, Zhejiang Province, China



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

ASN-40TL	
PV INPUT	
Max. PV input power	60kW
Max. PV input voltage	1100V
Rated PV input voltage	600V
Start-up voltage	180V
MPPT voltage range	160-1000V
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	40kW
Max. apparent output power	44kVA
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	57.7A
Max. output current	63.5A
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	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	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	<1W
Dimensions (W*H*D)	568*443*228mm
Weight	35kg
COMMUNICATION	
Display	LED+Bluetooth+APP(Optional:LCD)
Communication	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.