

THREE PHASE ON-GRID INVERTER

ASN-33TL-G3

ASN-36TL-G3

ASN-40TL-G3

ASN-50TL-G3



High Efficiency

- » Max. Efficiency 98.6%, MPPT Max. Efficiency 99.8%
- » 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
- » 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



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

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PV INPUT				
Max.input power	49.5kW	54kW	60kW	75kW
Max.input voltage	1100V			
Rated voltage	620V			
Start-up voltage	180V			
MPPT voltage range	160-1000V			
Max.input current	40A/40A/20A	40A/40A//20A/20A		40A/40A/20A/32A
Max.short circuit current	50A/50A/25A	50A/50A/25A/25A		50A/50A/25A/40A
MPPT number	3	4		4
Max. input strings number	5	6		7
AC OUTPUT				
Rated output power	33kW	36kW	40kW	50kW
Max.apparent output power	36.3kVA	39.6kVA	44kVA	55kVA
Max.output power	36.3kW	39.6kW	44kW	55kW
Rated grid output current	47.6A	52A	57.7A	72.2A
Max.output current	52.4A	57.2A	63.5A	79.4A
Rated grid voltage	400V, 3/N/PE			
Grid voltage range	178V-276V(Phase voltage), 308-478(Line voltage)			
Rated grid frequency	50Hz/60Hz			
Power factor	1(0.8 Leading...0.8Lagging)			
THDi	<3%			
EFFICIENCY				
Max.efficiency	98.60%			
EU efficiency	98.00%			
MPPT efficiency	> 99.8%			
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
Anti-islanding protection	Yes			
Short circuit protection	Yes			
Insulation impedance detection	Yes			
Ground fault monitoring	Yes			
Residual leakage current detection	Yes			
I/V Curve scanning	Optional			
DC/AC Surge protection	DC Type II / AC Type II			
PV Strings monitoring	Optional			
PID recovery	Optional			
Antibackflow	Optional			
DC arc-fault circuit protection	Optional			
GENERAL DATA				
Dimensions (W*H*D)	578x444x221mm			
Weight	29kg			
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			
Type of DC terminal	MC4 connector			
Type of AC terminal	OT terminal			
DISPLAY&COMMUNICATION				
Display	LCD/LED+Bluetooth+APP			
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.