

THREE PHASE ON-GRID INVERTER

ASN-30TL-G2

ASN-(33-40)TL



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.

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-30TL-G2	ASN-33TL	ASN-36TL	ASN-40TL
PV INPUT				
Max. PV input power	45kW	49.5kW	54kW	60kW
Max. PV input voltage	1100V			
Rated PV input voltage	620V	600V		
Start-up voltage	160V	180V		
MPPT voltage range	150-1000V	160-1000V		
Max. PV input current	40A/32A/32A	40A/40A/20A		40A/40A/20A/20A
Max. short circuit current	50A/40A/40A	50A/50A/25A		50A/50A/25A/25A
MPPT number/Max. input strings number	3/6	3/5		4/6
AC OUTPUT				
Rated output power	30kW	33kW	36kW	40kW
Max. apparent output power	33kVA	36.3kVA	39.6kVA	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	43.3A	47.6A	52A	57.7A
Max. output current	47.6A	52.4A	57.2A	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	98.20%	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...+60℃			
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)	524*419*198mm	568*443*228mm		
Weight	24.5kg	35kg		
COMMUNICATION				
Display	LED+Bluetooth+APP(Optional:LCD)			
Communication	RS485,Optional:WIFI,4G,LAN			
CERTIFICATION				
Grid standards	EN 50549-1, IEC 61727/62116, IEC 61683, VDE 4105, VDE 0124,NCRfG,PEA,UNE 217001,UNE 217002,NTS-631			
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.