

THREE PHASE ON-GRID INVERTER

ASN-30TL-G2



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

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ASN-30TL-G2	
PV INPUT	
Max. PV input power	45kW
Max. PV input voltage	1100V
Rated PV input voltage	620V
Start-up voltage	160V
MPPT voltage range	150-1000V
Max. PV input current	40A/32A/32A
Max. short circuit current	50A/40A/40A
MPPT number/Max. input strings number	3/6
AC OUTPUT	
Rated output power	30kW
Max. apparent output power	33kVA
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
Max. output current	47.6A
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%
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	/
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)	524*419*198mm
Weight	24.5kg
COMMUNICATION	
Display	LED+Bluetooth+APP(Optional:LCD)
Communication	RS485,Optional:WIFI,4G,LAN