

THREE PHASE ON-GRID INVERTER



ASN-30TL-G2

ASN-40TL

KEY FEATURES



EFFICIENT

- Maximum efficiency 98.6%, MPPT maximum efficiency 99.8%
- Maximum MPPT current 40A, suitable for 182/210 modules
- Supports 1.5x oversizing on the DC side
- Start-up voltage of 160V



INTELLIGENCE

- Advanced automatic voltage regulation technology ensures seamless adaptation to complex power grid conditions
- Optional PID recovery function improves system energy generation
- Optional 24/7 load monitoring functionality for continuous system insights
- Integrated intelligent management system for monitoring and optimization



FRIENDLY

- Flexible Communication Options: Supports RS485, WiFi, 4G, LAN
- One-Tap Cloud Access: Seamlessly integrates with AUXSOL cloud via QR code, enabling remote upgrades and configuration
- 3 MPPT design, adaptable to complex rooftops



SAFE AND RELIABLE

- IP66 Protection, high protection level suitable for harsh environments
- Support I-V curve scanning, precisely detects string abnormalities
- Intelligent AFCI to reduce fire risks (Optional)
- Designed with pure film capacitors on the busbar, significantly enhancing product lifespan
- Supports anti-backflow(optional)



ECONOMICAL AND COST-SAVING

- Intelligent string monitoring, enabling quick identification of faulty strings (optional)
- Supports high-power module integration, reducing system installation and cable costs

ASN-40TL	
Input DC	
Max.input power	60kW
Max.input voltage	1100V
Rated voltage	600V
Start-up voltage	180V
MPPT voltage range	160-1000V
Max.input current	40A/40A/20A/20A
Max.short circuit current	50A/50A/25A/25A
MPPT number	4
Max. input strings number	6
Output AC	
Rated output power	40kW
Max.apparent output power	44kVA
Max.output power	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	57.7A
Max.output current	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℃
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.