

# THREE PHASE ON-GRID INVERTER



ASN-(33-40)TL

## 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 180V



### 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



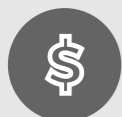
### FRIENDLY

- 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
- 4 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-33TL	ASN-36TL	ASN-40TL
<b>Input DC</b>			
Max.input power	49.5kW	54kW	60kW
Max.input voltage		1100V	
Rated voltage		600V	
Start-up voltage		180V	
MPPT voltage range		160-1000V	
Max.input current	40A/40A/20A		40A/40A/20A/20A
Max.short circuit current	50A/50A/25A		50A/50A/25A/25A
MPPT number	3		4
Max. input strings number	5		6
<b>Output AC</b>			
Rated output power	33kW	36kW	40kW
Max.apparent output power	36.3kVA	39.6kVA	44kVA
Max.output power	36.3kW	39.6kW	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	47.6A	52A	57.7A
Max.output current	52.4A	57.2A	63.5A
Power factor	1 (0.8 leading ... 0.8 lagging)		
THDi	<3%		
<b>Efficiency</b>			
Max. efficiency	98.6%		
EU efficiency	98.3%		
MPPT efficiency	99.8%		
<b>Protection</b>			
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		
<b>General Data</b>			
Dimensions (W*H*D)	568*443*228mm		
Weight	35kg		
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		
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		
<b>Display&amp;Communication</b>			
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.