

THREE PHASE ON-GRID INVERTER



ASN-(50-80)TL-G2

KEY FEATURES



EFFICIENT

- Maximum efficiency 98.6%
- Maximum string current of 48A, perfectly compatible with 182/210 components
- Support 1.5 times over configuration on the DC side
- Ultra low starting voltage, ultra wide voltage range



INTELLIGENCE

- Optional string monitoring function, accurately identifying string anomalies
- Optional PID repair function to increase system power generation
- One click QR code scanning for website building, supporting remote upgrades and settings
- Optional AFCI intelligent anti pull arc to reduce fire risk



FRIENDLY

- AC/DC maximum 20KA secondary lightning protection design, actively eliminating lightning hazards
- Support I-V curve scanning to accurately identify string anomalies
- Support aluminum wire connection, saving AC cable costs
- Home appliance grade EMC design, lower electromagnetic interference

	ASN-50TL-G2	ASN-60TL-G2	ASN-70TL-G2	ASN-75TL-G2	ASN-80TL-G2
Input DC					
Max.input power	75kW	90kW	105kW	112.5kW	120kW
Max.input voltage	1100V				
Rated voltage	630V				
Start-up voltage	180V				
MPPT voltage range	150-1000V				
Max.input current	40A*4				48A*4
Max.short circuit current	50A*4				60A*4
MPPT number	4				4
Max. input strings number	8				12
Output AC					
Rated output power	50kW	60kW	70kW	75kW	80kW
Max.apparent output power	55kVA	66kVA	77kVA	82.5kVA	88kVA
Max.output power	55kVA	66kVA	77kVA	82.5kVA	88kVA
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	72.2A	86.6A	101A	108.3A	115.5A
Max.output current	79.4A	95.3A	111A	119.1A	127A
Power factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
Efficiency					
Max. efficiency	98.60%				
EU efficiency	98.30%				
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)	735*530*285mm				
Weight	60kg				
Self consumption(night)	< 1W(Without 24h load monitoring)				
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/T 32004,EN50549-1				
Safety/EMC standard	IEC/EN 62109-1/2,EN IEC 61000-6-2/4,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.