

THREE PHASE ON-GRID INVERTER

ASN-50TL-HV-G2

ASN-80TL-HV-G2



KEY FEATURES



High Efficiency

- » Single MPPT supports a Max. current of 48A, single string supports a Max. current of 20A, compatible with 210 large modules
- » 180V 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



Safe & Reliable

- » Supports I-V curve scanning, accurately identifying string anomalies
- » Intelligent AFCI reduces fire risk (Optional)



Economical & Cost-Saving

- » Intelligent string monitoring, rapid identification of faulty strings, reducing safety risks (Optional)
- » No power derating at 45°C, more reliable with more yield

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

Advance Unlimited X-tra Green Power

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	ASN-50TL-HV-G2	ASN-80TL-HV-G2
PV INPUT		
Max. PV input power	75kW	120kW
Max. PV input voltage	1100V	
Rated PV input voltage	630V	
Start-up voltage	180V	
MPPT voltage range	150-1000V	
Max. PV input current	4*40A	4*48A
Max.short circuit current	4*50A	4*60A
MPPT number/Max. input strings number	4/8	4/12
AC OUTPUT		
Rated output power	50kW	80kW
Max. apparent output power	55kVA	88kVA
Rated output current	72.2A	115.5A
Max. output current	79.4A	127A
Rated output voltage	3/PE, 480 V	
Output voltage range	-	
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)	
Power factor	>0.99 (0.8 leading ... 0.8 lagging)	
THDi	<3%	
EFFICIENCY		
MPPT efficiency	>99.8%	
Max. efficiency	98.60%	
EU efficiency	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)	735*530*285mm	
Weight	60kg	
COMMUNICATION		
Display	LED+Bluetooth+APP (Optional:LCD)	
Communication	Standard:RS485,Wifi, Optional:WLAN	