

## 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.



## R&D Strength

AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-oriented, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadership in solar industry.



**6** R&D centers



**50+**  
Top experts in the industry



**21261** Patents



**100** million  
Average annual investment



**3** CNAS labs

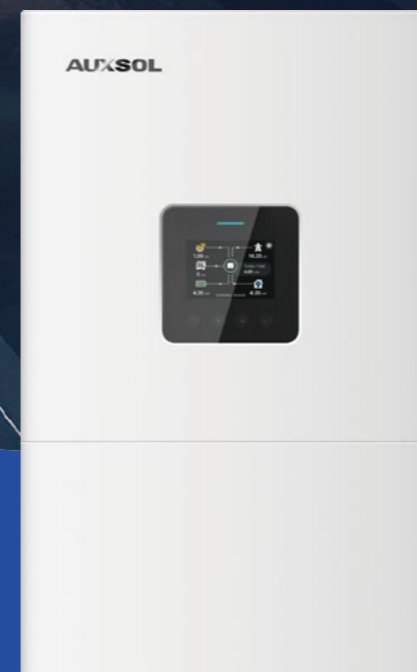


**5474** R&D engineers

**Ningbo AUX Solar Import & Export Co., Ltd.**  
No.17Fenglin Road, Cicheng Town,  
Jiangbei District, Ningbo City, zhejiang Province, China



✉ [info@auxsol.com](mailto:info@auxsol.com)  
🌐 [www.auxsol.com](http://www.auxsol.com)  
☎ +86 0574-8765 2201



**HYBRID INVERTER**

5-12kW-ZL

**NEW**



# LOW VOLTAGE HYBRID INVERTER

ASG-(5-12)TL-ZL

## KEY FEATURES



String current up to 20A



60V start-up voltage



Wide range of MPPT voltage



Remote diagnosis & update



<10ms UPS-level switching



24-hour intelligent energy management



Easy setting of smart working modes



Smart load dual output interface

	ASG-5TL-ZL	ASG-6TL-ZL	ASG-8TL-ZL	ASG-10TL-ZL	ASG-12TL-ZL
<b>Input DC</b>					
Max.input power	7.5kW	9kW	12kW	15kW	18kW
Max.input voltage	1000V				
Rated voltage	600V				
Start-up voltage	160V				
MPPT voltage range	170-900V				
Max.input current	16A/16A		26A/26A		
Max.short circuit current	20A/20A		32A/32A		
MPPT number	2		2		
Max. input strings number	2		4		
<b>Input Battery</b>					
Battery type	Li-ion/Lead-acid				
Battery Voltage Range	40-60V				
Number of battery input channels	1				
Max. charge / discharge current	250/250				
Communication	CAN/RS485				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
<b>Output AC (Grid side)</b>					
Rated output power	5kW	6kW	8kW	10kW	12kW
Max. apparent output power	5kVA	6kVA	8kVA	10kVA	12kVA
Max. rated current	11.4A	13.6A	18.2A	22.7A	27.3A
Max. output current	11.4A	13.6A	18.2A	22.7A	27.3A
Grid voltage range	165-288V(Phase voltage),286-498V(Line voltage)				
Rated grid voltage	220V/380V,230V/400V,3/N/PE				
Rated grid frequency	50Hz/60Hz				
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)				
THDi	<3%				
<b>Input AC (Grid side)</b>					
Rated input power	5kW	6kW	8kW	10kW	12kW
Max. input power	10kVA	12kVA	16kVA	20kVA	24kVA
Max. apparent output power	10kVA	12kVA	16kVA	20kVA	24kVA
Max. input current	15.2A	18.2A	24.2A	30.3A	36.4A
Rated input voltage	220V/380V,230V/400V,3/N/PE				
Rated input frequency	50Hz/60Hz				
<b>Output AC (Back-up)</b>					
Rated output power	5kW	6kW	8kW	10kW	12kW
Max.output power	7.6A	9.1A	12.1A	15.2A	18.2A
Max. output current	/				
Back-up switch time	<4ms				
Rated output voltage	220V/380V,230V/400V,3/N/PE				
Rated frequency	50Hz/60Hz				
THDv	<3%				
<b>Efficiency</b>					
Max. efficiency	97.34%				
EU efficiency	96.45%				
BAT charged/discharged Max. efficiency	93.90%				
MPPT Efficiency	99.80%				
<b>Protection</b>					
Integrated DC switch	Yes				
DC rever-polarity protection	Yes				
Anti-islanding protection	Yes				
Short circuit protection	Yes				
Output over currentprotection	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				
Battery reverse protection	No				
AC Over voltage Protection	Yes				
DC Over current Protection	Yes				
I/V Curve scanning	Optional				
24-hour load monitoring	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Optional				
Antibackflow	Optional				
LVRT	Optional				
Parallel	Optional				
<b>General Data</b>					
Dimensions (W*H*D)	380*625*270mm				
Weight	35kg				
Self consumption(night) (Rated voltage)	≤20W				
Operating temperature range	-40 to +60°C				
Cooling concept	Smart Fan Cooling				
Max. operation altitude	4000m (Derating above 3000m)				
Relative humidity	0-100%				
Ingress protection	IP66				
Topology Structure	Transformerless				
Grid connection stadard	IEC 61727,IEC 62116,IEC 61683				
Safety/EMC standard	IEC/EN 62109-1,2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12				
Type of DC terminal	MC4 connector				
Battery connection type	Terminal				
Type of AC terminal (Back-up)	Terminal				
Type of AC terminal (Grid side)	Terminal				
<b>Display&amp;Communication</b>					
Display	LED+Bluetooth+APP(Optional:LCD)				
Communication Interface	RS485 / CAN , Wi-Fi +Bluetooth, Optional:GPRS,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.