

AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 30000+ 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



20117 Patents



100 million
Average annual investment



3 CNAS labs



5474 R&D
engineers

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HYBRID INVERTER

3.6-12kW-ZL

5 YEARS WARRANTY



SINGLE PHASE & THREE PHASE HYBRID INVERTER

ASG-(6/8)SL-ZL

ASG-12TL-ZL

KEY FEATURES



String current up to 20A



60V start-up voltage



Wide range of MPPT voltage



Remote diagnosis & update



<4ms UPS-level switching



24-hour intelligent energy management



Easy setting of smart working modes



Smart load dual output interface

	ASG-6SL-ZL	ASG-8SL_ZL	ASG-12TL-ZL
Input DC			
Max. input power	9kW	12kW	18kW
Max. input voltage	550V		1000V
Rated voltage	370V		600V
Start-up voltage	60V		160V
MPPT voltage range	90-450V		170-900V
max. input current	16A/16A	32A/32A	26A/26A
Max. short circuit current	20A/20A	40A/40A	32A/32A
MPPT number	2		
Max. input strings number	2	4	4
Input Battery			
Battery type	Lithium-ion/Lead-acid		
Battery Voltage Range	40-60V		
Number of battery input channels	1		
Max. charge / discharge current	190/190		250/250
Communication	CAN/RS485		
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Output AC (Grid side)			
Rated output power	6kW	8kW	12kW
Max. apparent output power	6.6kVA	8.8kVA	12kVA
Max. rated current	26.1A	34.8A	27.3A
Max. output current	28.7A	38.3A	/
Grid voltage range	160-300V		165-288V(Phase voltage),286-498(Line voltage)
Rated grid voltage	220/230V		220V/380V,230V/400V,3/N/PE
Rated grid frequency			50Hz/60hz
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)		
THDi	<3%		
Input AC (Grid side)			
Rated input power	6kW	8kW	12kW
Max. input power	9.2kVA	11.5kVA	24kVA
Max. apparent output power	9.2kVA	11.5kVA	24kVA
Max. input current	40A	50A	36.4A
Rated input voltage	220V/230		220V/380V,230V/400V,3/N/PE
Rated input frequency	50Hz/60hz		
Output AC (Back-up)			
Rated output power	6kW	8kW	12kW
Max. output power	28.7A	38.3A	18.2A
Max. output current	2 times of retad power, 10s		
Back-up switch time	<4ms		
Rated output voltage	220V/230		220V/380V,230V/400V,3/N/PE
Rated frequency	50Hz/60hz		
THDv	<3%		
Efficiency			
Max. efficiency	97.70%		97.34%
EU efficiency	96.70%		96.45%
MPPT Efficiency	99.80%		99.80%
Protection			
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	Yes		
Integrated AFCI (DC arc-fault protection)	Yes		
Antibackflow	Yes		
LVRT	Yes		
Parallel	Yes		
General Data			
Dimensions (W*H*D)	350*560*225mm		380*625*270mm
Weight	26kg		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 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61
Type of DC terminal	MC4 connector		
Battery connection type	Terminal		
Type of AC terminal (Back-up)	Terminal		
Type of AC terminal (Grid side)	Terminal		
Display&Communication			
Display	LED+Bluetooth+APP		
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.