

LOW VOLTAGE HYBRID INVERTER

(SINGLE PHASE)

ASG-5SL-ZL

ASG-6SL-ZL

ASG-8SL-ZL

ASG-10SL-ZL



KEY FEATURES



High Efficiency

- » Wide MPPT voltage range for increased power generation
- » Max. string current 20A, suitable for high-current/double-sided components



Smart

- » Supports remote diagnostics and software updates
- » Easy to set up intelligent working modes
- » Compatible with diesel generators, can control the generator automatically start & stop



User-Friendly

- » <4ms UPS-level switching
- » Smart load dual output interface protection
- » 6 editable charge/discharge times



Safe & Reliable

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



Economical & Cost-Saving

- » Supports grid-connected and off-grid AC coupled access

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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	ASG-5SL-ZL	ASG-6SL-ZL	ASG-8SL-ZL	ASG-10SL-ZL
PV INPUT				
Max. PV access power	10kW	12kW	16kW	20kW
Max. PV input power	7.5kW	9kW	12kW	15kW
Max.input voltage	550V			
Rated PV input voltage	360V			
Start-up voltage	60V			
MPPT voltage range	90-450V			
Max. PV input current	16A/16A		32A/32A	
Max. short circuit current	20A/20A		40A/40A	
MPPT number/Max. input strings number	2/2		2/4	
BATTERY				
Battery type	Lead-acid or Li-ion			
Rated battery voltage	48V			
Battery voltage range	40-60V			
Max. charge / discharge current	120A/120A	135A/135A	190A/190A	210A/210A
Communication	CAN/RS485			
Charging strategy for Li-Ion battery	Self-adaption to BMS			
AC OUTPUT				
Rated output power	5kW	6kW	8kW	10kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA
Rated output voltage	220V/230V,L/N/PE			
Output voltage range	160V-300V			
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)			
Rated output current	21.7A	26.1A	34.8A	43.5A
Max.output current	23.9A	28.7A	38.3A	47.8A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
AC INPUT				
Rated input power	5kW	6kW	8kW	10kW
Max. input power	6.9kW	9.2kW	11.5kW	11.5kW
Rated input voltage	220V/230V,L/N/PE			
Rated input frequency	50/60Hz			
Max. input current	30A		40A	50A
BACK-UP OUTPUT				
Rated output power	5kW	6kW	8kW	10kW
Max. ouput power	2 times of rated power, 10 s			
Rated output voltage	220V/230V,L/N/PE			
Rated output frequency	50/60Hz			
Max. output current	23.9A	28.7A	38.3A	43.5A
Back-up switch time	<4ms			
THDv	<3%			
EFFICIENCY				
MPPT efficiency	99.80%			
Max. efficiency	97.70%			
EU efficiency	96.70%			
BAT charged/discharged Max. efficiency	95.3% / 93.9%			
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
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			
DC arc-fault circuit protection	Optional			
I/V curve scanning	Yes			
Parallel connection number of inverter	Max.16			
GENERAL				
Operating temperature range	-40 to +60C			
Max. operation altitude	4000m(Derating above 3000m)			
Relative humidity	0~100%			
Cooling concept	Smart Fan Cooling			
Ingress protection	IP 66			
Topology	Transformerless			
Self consumption(night)	≤20W			
Dimensions (W*H*D)	350*560*237mm			
Weight	25kg			
Type of PV terminal	MC4 connector			
Type of AC terminal (Grid side)	Terminal			
COMMUNICATION				
Display	LCD+LED+Bluetooth+APP			
Communication	WIFI+Bluetooth Optional:GPRS,LAN ;BMS:RS485/CAN			

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.