

# LOW VOLTAGE HYBRID INVERTER

(SINGLE PHASE)



ASG-(4-6)SL-ZL-G2

## 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 and 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	\$11.8 Billion Revenue in 2025	5 Business Industries
\$9.6 Billion Assets	500 China's Top	40000+ Employees

## AUXSOL

WIN A GREEN FUTURE TOGETHER

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	ASG-4SL-ZL-G2	ASG-6SL-ZL-G2
<b>PV INPUT</b>		
Max. PV access power	8kW	12kW
Max. PV input power	6kW	9kW
Max.input voltage		550V
Rated PV input voltage		360V
Start-up voltage		60V
MPPT voltage range		90-450V
Max. PV input current		20A/20A
Max. short circuit current		30A/30A
MPPT number/Max. input strings number		2/2
<b>BATTERY</b>		
Battery type		Lead-acid or Li-ion
Rated battery voltage		48V
Battery voltage range		40-60V
Max. charge / discharge current	100A/100A	135A/135A
Communication		CAN/RS485
Charging strategy for Li-Ion battery		Self-adaption to BMS
<b>AC OUTPUT</b>		
Rated output power	4kW	6kW
Max. apparent output power	4.4kVA	6.6kVA
Max.output current	19.1A	28.7A
Rated output voltage		220V/230V,L/N/PE
Output voltage range		160V-300V
Rated output frequency/ frequency range		50Hz/60Hz (±5Hz)
Power factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		<3%
<b>AC INPUT</b>		
Rated input power	4kW	6kW
Max. input power		9.2kW
Max. input current		40A
Rated input frequency		220V/230V,L/N/PE
Rated input voltage		50/60Hz
<b>BACK-UP OUTPUT</b>		
Rated output power	4kW	6kW
Max. output current	18.2A	27.3A
Max. ouput power		2 times of rated power, 10 s
Rated output voltage		220V/230V,L/N/PE
Rated output frequency		50/60Hz
Back-up switch time		<4ms
THDv		<3%
<b>EFFICIENCY</b>		
MPPT efficiency		99.80%
Max. efficiency		97.70%
EU efficiency		96.70%
BAT charged/discharged Max. efficiency		95.3% / 93.9%
<b>PROTECTION</b>		
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
<b>GENERAL</b>		
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)		305*462*180mm
Weight		15kg
Type of PV terminal		MC4 connector
Type of AC terminal (Grid side)		Terminal
<b>COMMUNICATION</b>		
Display		LCD+LED+Bluetooth+APP
Communication		WiFi+Bluetooth, Optional:LAN ; BMS:RS485/CAN
<b>CERTIFICATION</b>		
Grid standards		IEC 61727/62116
Safety/EMC		IEC/EN 62109-1/2, EN IEC61000-6-1/2/3/4

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.