

LOW VOLTAGE HYBRID INVERTER

(SINGLE PHASE)

ASG-(3.6-10)SL-ZL

NEW



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.

39 Years History	\$12.4 Billion Revenue in 2024	5 Business Industries
\$9.6 Billion Assets	500 China's Top	40000+ Employees

AUXSOL

WIN A GREEN FUTURE TOGETHER

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	ASG-3.6SL-ZL	ASG-4SL-ZL	ASG-5SL-ZL	ASG-6SL-ZL	ASG-8SL-ZL	ASG-10SL-ZL
PV INPUT						
Max. PV access power	7.2kW	8kW	10kW	12kW	16kW	20kW
Max. PV input power	5.4kW	6kW	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	190A/190A					210A/210A
Communication	CAN/RS485					
Charging strategy for Li-Ion battery	Self-adaption to BMS					
AC OUTPUT						
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW
Max. apparent output power	3.96kVA	4.4kVA	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	15.7A	17.4A	21.7A	26.1A	34.8A	43.5A
Max.output current	17.2A	19.1A	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	3.6kW	4kW	5kW	6kW	8kW	10kW
Max. input power	6.9kW	6.9kW	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	3.6kW	4kW	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	17.2A	19.1A	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 +60℃					
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					
CERTIFICATION						
Grid standards	IEC 61727/62116,IEC 61683,NRS 097,EN 50549,PEA					
Safetv/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12					

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.