

HIGH VOLTAGE HYBRID INVERTER

(SINGLE PHASE)

ASG-(3.6-6)SL-ZH



KEY FEATURES



High Efficiency

- » String current up to 16A
- » 80V low start-up voltage enables early startup and more energy generation



Smart

- » Compatible with diesel generators, can control the generator automatically start and stop
- » Supports up to 16 off-grid parallel work
- » Integrated Intelligent Management System



User-Friendly

- » A variety of operating modes can be selected, suitable for different application scenarios
- » <10ms UPS-level switching
- » 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

- » Supporting AC coupling and transforming PV grid-connected systems
- » Support for dynamic tariffs
- » Support for the "peak shaving" model

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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	ASC-3.6SL-ZH	ASC-4SL-ZH	ASC-4.6SL-ZH	ASC-5SL-ZH	ASC-6SL-ZH
PV INPUT					
Max. PV access power	7.2kW	8kW	10kW	10kW	12kW
Max. PV input power	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. input voltage			550V		
Rated PV input voltage			360V		
Start-up voltage			80V		
MPPT voltage range			90-520V		
Max. PV input current			16A/16A		
Max. short circuit current			20A/20A		
MPPT number/Max. input strings number			2/2		
BATTERY					
Battery type			Li-ion		
Battery voltage range			80V-480V		
Max. charge / discharge current			30A/30A		
Communication			CAN/RS485		
Charging strategy for Li-Ion battery			Self-adaption to BMS		
AC OUTPUT					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA
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	20A	21.7A	26.1A
Max.output current	17.2A	19.1A	22A	23.9A	28.7A
Power factor			>0.99 (0.8 leading - 0.8 lagging)		
THDi			<3%		
AC INPUT					
Rated input power	3.6kW	4kW	4.6kW	5kW	6kW
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW
Rated input voltage			220V/230V,L/N/PE,		
Rated input frequency			50/60Hz		
Max. input current	21A	23A	26.8A	29.1A	34.8A
BACK-UP OUTPUT					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
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	15.6A	17.4A	20A	21.7A	26A
Back-up switch time			<10ms		
THDv			<3%		
EFFICIENCY					
MPPT efficiency			99.80%		
Max. efficiency			97.8%		
EU efficiency			96.8%		
BAT charged/discharged Max. efficiency			97.6%		
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		
Battery reverse protection			Yes		
DC arc-fault circuit protection			Optional		
I/V curve scanning			Optional		
Parallel			Optional		
GENERAL					
Operating temperature range			-30 to +60 C		
Max. operation altitude			4000m(Derating above 3000m)		
Relative humidity			0~100%		
Cooling concept			Natural Cooling		
Ingress protection			IP 66		
Topology			Transformerless		
Self consumption(night)			≤17W		
Dimensions (W*H*D)			455*461*213mm		
Weight			19kg		
Type of PV terminal			MC4 connector		
Type of AC terminal (Grid side)			Quick connection plug		
COMMUNICATION					
Display			LED+Bluetooth+APP(Optional:LCD)		
Communication			WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN		
CERTIFICATION					
Grid standards	EN 50549-1,IEC 61727/62116,IEC 61683,UNE 217001,UNE 217002,NTS-631, PTPIREE,NCRfG,VDE 4105,VDE 0124,INMETRO 515,NRS 097				
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12				

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