

**NEW**



# LOW VOLTAGE HYBRID INVERTER

ASG-(5-8)SL-ZL

## KEY FEATURES



String current up to 20A



60V start-up voltage



Wide range of MPPT voltage



Remote diagnosis & update



<10ms UPS-level switching



24-hour intelligent energy management



Easy setting of smart working modes



Smart load dual output interface

	ASG-5SL-ZL	ASG-6SL-ZL	ASG-8SL-ZL
<b>Input DC</b>			
Max.input power	10kW	12kW	16kW
Max.input voltage		550V	
Rated voltage		370V	
Start-up voltage		60V	
MPPT voltage range		90-450V	
Max.input current	16A/16A		32A/32A
Max.short circuit current	20A/20A		40A/40A
MPPT number	2		2
Max. input strings number	2		4
<b>Input Battery</b>			
Battery type	Li-ion/Lead-acid		
Battery Voltage Range	40-60V		
Number of battery input channels	1		
Max. charge / discharge current	190/190		
Communication	CAN/RS485		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>Output AC (Grid side)</b>			
Rated output power	5kW	6kW	8kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA
Max. rated current	21.7A	26.1A	34.8A
Max. output current	23.9A	28.7A	38.3A
Grid voltage range	160-300V		
Rated grid voltage	1/N/PE,220V/230V		
Rated grid frequency	50Hz/60Hz		
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)		
THDi	<3%		
<b>Input AC (Grid side)</b>			
Rated input power	5kW	6kW	8kW
Max. input power	6.9kVA	9.2kVA	11.5kVA
Max. apparent output power	6.9kVA	9.2kVA	11.5kVA
Max. input current	30A	40A	50A
Rated input voltage	1/N/PE,220V/230V		
Rated input frequency	50Hz/60Hz		
<b>Output AC (Back-up)</b>			
Rated output power	5kW	6kW	8kW
Max.output power	23.9	28.7A	38.3A
Max. output current	2 times of rated power, 10 s		
Back-up switch time	≤3ms		
Rated output voltage	220V/230V		
Rated frequency	50Hz/60Hz		
THDv	<3%		
<b>Efficiency</b>			
Max. efficiency	97.70%		
EU efficiency	96.70%		
BAT charged/discharged Max. efficiency	95.30% / 93.90%		
MPPT Efficiency	99.80%		
<b>Protection</b>			
Integrated DC switch	Yes		
DC rever-polarity protection	Yes		
Anti-islanding protection	Yes		
Short circuit protection	Yes		
Output over current protection	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	/		
24-hour load monitoring	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Optional		
Antibackflow	Optional		
LVRT	/		
Parallel	Optional		
<b>General Data</b>			
Dimensions (W*H*D)	350*560*237mm		
Weight	25kg		
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 standard	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		
Type of DC terminal	MC4 connector		
Battery connection type	Terminal		
Type of AC terminal (Back-up)	Terminal		
Type of AC terminal (Grid side)	Terminal		
<b>Display&amp;Communication</b>			
Display	LED+Bluetooth+APP(Optional:LCD)		
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.