



THREE PHASE HYBRID INVERTER

ASG-(3.6-8)SL-ZL

KEY FEATURES



String current
up to 20A



Wide range of
MPPT voltage



Remote
diagnosis & update



<10ms UPS-level
switching



24^h
intelligent energy management



Easy setting of smart
working modes

	ASG-3.6SL-ZL	ASG-4SL-ZL	ASG-5SL-ZL	ASG-6SL-ZL	ASG-8SL-ZL
Input DC					
Max. input power	7.2kW	8kW	10kW	12kW	16kW
Max. input voltage	550V				
Rated voltage	370V				
Start-up voltage	60V				
MPPT voltage range	60-450V				
Max. input current	16A/16A		32A/32A		
Max. short circuit current	20A/20A		40A/40A		
MPPT number	2				
Max. input strings number	2		4		
Input Battery					
Battery type	Lead-acid or Lithium-ion				
Battery Voltage Range	40-60V				
Number of battery input channels	190/190				
Max. charge / discharge current	1				
Communication	CAN/RS485				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
Output AC (Grid side)					
Rated output power	3.6kW	4kW	5kW	6kW	8kW
Max. apparent output power	3.96kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA
Max. rated current	15.7A	17.4A	21.7A	26.1A	34.8A
Max. output current	17.2A	19.1A	23.9A	28.7A	38.3A
Grid voltage range	187-253V				
Rated grid voltage	220V/230V				
Rated grid frequency	50/60Hz				
Power Factor	0.8 leading-0.8lagging				
THDi	<3%				
Input AC (Grid side)					
Rated input power	3.6kW	4kW	5kW	6kW	8kW
Max. apparent output power	3.96kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA
Max. input current	35A		40A		
Rated input voltage	220V/230V				
Rated input frequency	50Hz/60Hz				
Output AC (Back-up)					
Rated output power	3.6kW	4kW	5kW	6kW	8kW
Max. output power	2 times of rated power, 10 s				
Max. output current	17.2A	19.1A	23.9A	28.7A	38.3A
Back-up switch time	< 3 ms				
Rated output voltage	220V/230V				
Rated frequency	50/60Hz				
THDv	<3%				
Efficiency					
Max. efficiency	97.70%				
EU efficiency	95.3%				
BAT charged/discharged Max. efficiency	93.9%				
MPPT Efficiency	99.80%				
Protection					
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	Yes				
AC Over voltage Protection	Yes				
DC Over current Protection	Yes				
Antibackflow	Optional				
24-hour load monitoring	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Optional				
General Data					
Dimensions (W*H*D)	560*350*215mm				
Weight	26kg				
Self consumption(night) (Rated voltage)	<20W				
Operating temperature range	-40 to +60 C				
Cooling concept	Smart Fan Cooling				
Max. operation altitude	3000m				
Relative humidity	0~100%				
Ingress protection	IP 66				
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	MC4 connector				
Type of AC terminal (Back-up)	Quick connection plug				
Type of AC terminal (Grid side)	Quick connection plug				
Display&Communication					
Display	LED+Bluetooth+APP (Optional:LCD)				
Communication Interface	RS485 / CAN / Wi-Fi (Optional) / GPRS (Optional) / LAN (Optional)				

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.