

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.



R&D Strength

AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-oriented, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadership in solar industry.



6 R&D centers



50+
Top experts in the industry



21261 Patents



100 million
Average annual investment



3 CNAS labs



5474 R&D
engineers

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HYBRID INVERTER

3.6-6kW

HYBRID INVERTER



ASG-(3.6-6)SL-ZH

KEY FEATURES



String current
up to 16A



Wide range of
MPPT voltage



Remote
diagnosis & update



<10ms UPS-level
switching



24-hour intelligent
energy management



Easy setting of smart
working modes

	ASG-3.6SL-ZH	ASG-4SL-ZH	ASG-4.6SL-ZH	ASG-5SL-ZH	ASG-6SL-ZH
Input DC					
Maximum input power of a single MPPT	3.6kW	4kW		5kW	
Max.input voltage		550V			
Rated voltage		360V			
Start-up voltage		80V			
MPPT voltage range		90-520V			
Max.input current		16A/16A			
Max.short circuit current		20A/20A			
MPPT number		2			
Max. input strings number		2			
Input 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			
Output AC (Grid side)					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA
Max. output current	17.2A	19.1A	22A	23.9A	28.7A
Grid voltage range			160-300V		
Rated grid voltage			220 V / 230 V		
Rated grid frequency			50Hz/60Hz		
Power Factor			>0.99 (0.8 leading - 0.8 lagging)		
THDi			<3%		
Input AC (Grid side)					
Rated input power	3.6kW	4kW	4.6kW	5kW	6kW
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW
Max. apparent input power	4.8kVA	5.3kVA	6.2kVA	6.7kVA	8kVA
Max. input current	21A	23A	26.8A	29.1A	34.8A
Rated input voltage			1/N/PE, 220 V / 230 V		
Rated input frequency			50Hz/60Hz		
Output AC (Back-up)					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. output current	15.6A	17.4A	20A	21.7A	26A
Back-up switch time			<10ms		
Rated output voltage			220V/230V		
Rated frequency			50 Hz / 60 Hz		
THDv			<2%		
Efficiency					
Max. efficiency			97.8%		
EU efficiency			96.8%		
BAT charged/discharged			97.6%		
Max. efficiency			99.8%		
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		
I/V Curve scanning			Optional		
24-hour load monitoring			Optional		
Integrated AFCI (DC arc-fault circuit protection)			Optional		
Anti-backflow			Optional		
LVRT			Optional		
Parallel			Optional		
General Data					
Dimensions (W*H*D)			455*461*213mm		
Weight			19kg		
Self consumption(night) (Rated voltage)			≤17W		
Operating temperature range			-30℃~60		
Cooling concept			Natural Cooling		
Max. operation altitude			4000m (Derating above 3000m)		
Relative humidity			0-100%		
Ingress protection			IP66		
Topology structure			Transformerless		
Grid connection standard			EN 50549-1,IEC 61727,IEC 62116,IEC 61683,UNE 217001,UNE 217002, NTS-631,PSE,PTPIREENC,RIG,NRS 097,IEC 63027,PORTARIA N°515		
Safety/EMC standard			IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12		
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,WIFI+Bluetooth, Optional:4G, 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.