

AUX GROUP

Established in 1986, AUX Group is an enterprise which covers 5 industries. It ranked China's top 500 enterprises for consecutive years, 30000+ employees keep AUX fast development for recent years.

37 Years History	81 Billion Revenue in 2022	5 Business Industries	63.2 Billion Assets	500 China's Top	30000+ Employees
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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 leadship in solar industry.

 6 R&D center

 500 PCB engineers

 18067 Patents

 100 million Average annual investment

 3 CNAS lab

 120 Leading electronic control staff

 4573 R&D engineers

 6% Annual R&D investment accounting for 6% of the sales

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HYBRID INVERTER
3.6-12kW

HYBRID INVERTER



ASG-(3.6-6)SL

ASG-(5-12)TL

KEY FEATURES



Support multiple
working modes



High matching ability



Wide MPPT
voltage range



Natural cooling



Automatic switch
time <10ms

	ASG-3.6SL	ASG-4SL	ASG-4.6SL	ASG-5SL	ASG-6SL	ASG-5TL	ASG-6TL	ASG-8TL	ASG-10TL	ASG-12TL
INPUT DC										
Max.input voltage	550V					1000V				
Rated voltage	360V					600V				
MPPT voltage range	90-520V					200-900V				
Max.input current	16A/16A					16A/16A	16A/16A			
Max.short circuit current	20A/20A					20A/20A	20A/20A			
MPPT number	2					2				
Max. input strings number	2					2				
BATTERY										
Battery type	Li-ion					Li-ion				
Battery voltage range	80V-480V					200V-800V				
Max. charge / discharge current	30A/30A					30A/30A				
Communication	CAN/RS485					CAN/RS485				
Charging strategy for Li-Ion battery	Self-adaption to BMS					Self-adaption to BMS				
Output AC (Grid side)										
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA	5.5kVA	6.6kVA	8.8kVA	11kVA	12kVA
Rated grid voltage	220 V / 230 V					3/N/PE,380V/400V				
Rated grid frequency	50Hz/60Hz					50Hz/60Hz				
Max. output current	17.2A	19.1A	22A	23.9A	28.7A	17.2A	8.7A	11.5A	14.4A	17.3A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)									
THDi	< 3%									
Input AC (Grid side)										
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW	10kW	12kW	16kW	20kW	24kW
Max. input current	21A	23A	26.8A	29.1A	34.8A	14.4A	17.3A	23.1A	28.9A	34.6A
Rated input voltage	1/N/PE, 220 V / 230 V					3/N/PE,380V/400V				
Rated input frequency	50Hz/60Hz					50Hz/60Hz				
Output AC (Back-up)										
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW
Max. output current	15.6A	17.4A	20A	21.7A	26A	7.2A	8.7A	11.5A	14.4A	17.3A
Back-up switch time	< 10ms					< 10ms				
Rated output voltage	220V/230V					380V/400V				
Rated frequency	50 Hz / 60 Hz					50 Hz / 60 Hz				
THDv	< 2%					< 2%				
EFFICIENCY										
Max.efficiency	98.1%					97.34%				
EU efficiency	97.3%					96.45%				
BAT charged/ discharged to AC Max. efficiency	97.6%					97.35%				
PROTECTION										
Integrated DC switch						Yes				
DC rever-polarity protection						Yes				
Anti-islanding protection						Yes				
Short circuit protection						Yes				
Output over currentprotection						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				
Antibackflow						Optional				
LVRT						Optional				
GENERAL DATA										
Dimensions (W*H*D)	419*455*200mm					540*420*218mm				
Weight	19kg					31.5kg				
Self consumption(night)	≤13W					≤20W				
Operating temperature range	-30...+60 ℃					-30...+60 ℃				
Cooling concept	Natural Cooling					Natural Cooling				
Max. operation altitude	4000m (Derating above 3000m)					4000m (Derating above 3000m)				
Relative humidity	0-100%					0-100%				
Ingress protection	IP65					IP66				
Topology structure						Transformerless				
Grid connection stadard	EN 50549,EN62116,EN 61727,INMETRO					EN50549-1,PN-EN 50549-1,PSE, PTPIREE,RD647,RD413,RD1699,UNE 217001/2, NTS631,NC RfG				
Safety/EMC standard	IEC 62109-1/2, IEC 61000-6-1/2/3/4,IEC 61000-3-11,EN 61000-3-12,EN 62920					IEC/EN62109-1/2,IEC/EN 62477-1,IEC/EN 61000-6-1/2/3/4,EN/IEC 61000-3-11, EN/IEC 61000-3-12				
Type of DC terminal						MC4 connector				
Type of AC terminal						Quick connection plug				
Battery connection type	Quick connection plug					/				
Type of AC terminal (Back-up)	/					Quick connection plug				
Type of AC terminal (Grid side)	/					Quick connection plug				
DISPLAY&COMMUNICATION										
Display	LED+Bluetooth+APP					LCD+LED+Bluetooth+APP				
Communication Interface						RS485,Optional:WIFI,4G				

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 recentversion at the moment of signing the contract.