

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

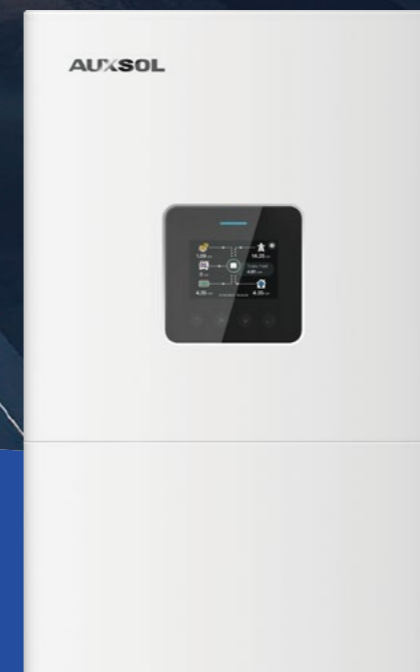


5474 R&D engineers

Ningbo AUX Solar Import & Export Co., Ltd.
No.17Fenglin Road, Cicheng Town,
Jiangbei District, Ningbo City, zhejiang Province, China



✉ info@auxsol.com
🌐 www.auxsol.com
☎ +86 0574-8765 2201



HYBRID INVERTER

3.6-8kW-ZL

NEW



LOW VOLTAGE HYBRID INVERTER

ASG-(3.6-8)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-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 |
| Max.input voltage | | | | 550V | 16kW |
| 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 |
| Input Battery | | | | | |
| 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 | |
| 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 | | | | 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% | |
| Input AC (Grid side) | | | | | |
| Rated input power | 3.6kW | 4kW | 5kW | 6kW | 8kW |
| Max. input power | 6.9kVA | 6.9kVA | 6.9kVA | 9.2kVA | 11.5kVA |
| Max. apparent output power | 6.9kVA | 6.9kVA | 6.9kVA | 9.2kVA | 11.5kVA |
| Max. input current | 30A | 30A | 30A | 40A | 50A |
| Rated input voltage | | | | 1/N/PE,220V/230V | |
| Rated input frequency | | | | 50Hz/60Hz | |
| Output AC (Back-up) | | | | | |
| Rated output power | 3.6kW | 4kW | 5kW | 6kW | 8kW |
| Max.output power | 17.2A | 19.1A | 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% | |
| Efficiency | | | | | |
| Max. efficiency | | | | 97.70% | |
| EU efficiency | | | | 96.70% | |
| BAT charged/discharged Max. efficiency | | | | 95.30% / 93.90% | |
| 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 | | | | 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 | |
| General Data | | | | | |
| 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 | |
| Display&Communication | | | | | |
| 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.