

# OFF GRID HYBRID INVERTER

(SINGLE PHASE)

ASO-(3.6-6)SL-ZL

NEW



## KEY FEATURES



### High Efficiency

- » Max. string current 20A, suitable for high-current/ double-sided components
- » 60V low start-up voltage enables early startup and more energy generation



### Smart

- » Supports remote diagnostics and software updates
- » Easy to set up intelligent working modes
- » Compatible with diesel generators, can control the generator automatically start and stop



### User-Friendly

- » <3ms UPS-level switching
- » 6 editable charge/discharge times



### Safe & Reliable

- » Supports I-V curve scanning, accurately identifying string anomalies
- » Intelligent AFCI reduces fire risk (Optional)



### Economical & Cost-Saving

- » Supports grid-connected and off-grid AC coupled access

## 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.

39

Years

History

\$12.4

Billion

Revenue in 2024

5

Business Industries

\$9.6

Billion

Assets

500

China's Top

40000+

Employees

## AUXSOL

WIN A GREEN FUTURE TOGETHER

### Ningbo AUX Solar Import & Export Co., Ltd.

No.17 Fenglin Road, Cicheng Town,  
Jiangbei District, Ningbo City, Zhejiang Province, China



✉ info@auxsol.com

🌐 www.auxsol.com

☎ +86 0574-8765 2201

	ASO-3.6SL-ZL	ASO-4SL-ZL	ASO-5SL-ZL	ASO-6SL-ZL
PV INPUT				
Max. PV access power	7.2kW	8kW	10kW	12kW
Max. PV input power	5.4kW	6kW	7.5kW	9kW
Max. input voltage	550V			
Rated PV input voltage	360V			
Start-up voltage	60V			
MPPT voltage range	90-550V			
Max. PV input current	20A/20A			
Max. short circuit current	30A/30A			
MPPT number/Max. input strings number	2/2			
BATTERY				
Battery type	Lead-acid or Li-ion			
Rated battery voltage	48V			
Battery voltage range	40-60V			
Max. charge / discharge current	90A	100A	120A	135A
Communication	CAN/RS485			
Charging strategy for Li-Ion battery	Self-adaption to BMS			
AC INPUT				
Rated input power	3.6kW	4kW	5kW	6kW
Max. input power	3.6kVA	4kVA	5kVA	6kVA
Rated input voltage	220V/230V, L/N/PE			
Rated input frequency	50/60Hz			
Max. input current	16.3A	18.2A	22.7A	27.3A
Max. Continuous AC Passthrough (grid to load)	35A			
BACK-UP OUTPUT				
Rated output power	3.6kW	4kW	5kW	6kW
Rated output voltage	220V/230V, L/N/PE			
Rated output frequency	50/60Hz			
Max. output current	16.3A	18.2A	22.7A	27.3A
Back-up switch time	< 3ms			
THDv	< 2%			
EFFICIENCY				
MPPT efficiency	99.90%			
Max. efficiency	97.7%			
EU efficiency	97.6%			
BAT charged/discharged Max. efficiency	95.3% / 93.9%			
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
Insulation impedance detection	Yes			
Residual leakage current detection	Yes			
Ground fault monitoring	Yes			
Short circuit protection	Yes			
Anti-islanding protection	Yes			
DC/AC surge protection	DC:Type II; AC:Type II			
Battery reverse protection	Yes			
DC arc-fault circuit protection	Optional			
I/V curve scanning	Yes			
Parallel connection number of inverter	Max.16			
GENERAL				
Operating temperature range	-40 to +60 C			
Max. operation altitude	4000m(Derating above 3000m)			
Relative humidity	0-100%			
Cooling concept	Smart Fan Cooling			
Ingress protection	IP 66			
Topology	Transformerless			
Self consumption(night)	≤20W			
Dimensions (W*H*D)	462*305*180 mm			
Weight	20kg			
Type of PV terminal	Terminal			
Type of AC terminal (Grid side)	Terminal			
COMMUNICATION				
Display	LCD+LED+Bluetooth+APP			
Communication	Standard:RS485 Optional:WiFi/LAN; BMS:RS485/CAN			
CERTIFICATION				
Safety/EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1/-2			

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.