

LOW VOLTAGE HYBRID INVERTER (THREE PHASE)

ASG-8TL-ZL

ASG-10TL-ZL

ASG-12TL-ZL

ASG-15TL-ZL



High Efficiency

- » Wide MPPT voltage range for increased power generation
- » Max. string current 20A, suitable for high-current/double-sided components



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

- » <4ms UPS-level switching
- » Smart load dual output interface protection
- » 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.

40

Years

History

\$12

Billion

Revenue in 2025

5

Business Industries

\$11.2

Billion

Assets

500

China's Top

40000+

Employees

AUXSOL

WIN A GREEN FUTURE TOGETHER

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	ASG-8TL-ZL	ASG-10TL-ZL	ASG-12TL-ZL	ASG-15TL-ZL
PV INPUT				
Max.input power	12kW	15kW	18kW	22.5kW
Max.input voltage	1000V			
Rated voltage	600V			
Start-up voltage	160V			
MPPT voltage range	170-900V			
MPPT number	2			
Max. input strings number	4			
Max.input current	26A/26A			36A/36A
Max.short circuit current	32A/32A			45A/45A
BATTERY				
Battery type	Li-ion / Lead-acid			
Battery Voltage Range	40-60V			
Number of battery input channels	1			
Max. charge / discharge current	190A	210A	250A	300A
Communication	CAN/RS485			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
OUTPUT AC (Grid Side)				
Rated output power	8kW	10kW	12kW	15kW
Max. apparent output power	8.8kVA	10kVA	12kVA	15kVA
Rated current	34.8A	15.2A	18.2A	22.7A
Max. output current	38.3A	15.2A	18.2A	22.7A
Rated grid voltage	1/N/PE,220V/230V			
Rated grid frequency	50/60Hz			
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
INPUT AC (Grid Side)				
Rated input power	8kW	10kW	12kW	15kW
Max. input power	16kW	20kW	24kW	30kW
Max. apparent output power	16kVA	20kVA	24kVA	30kVA
Max. input current	24.2A	30.3A	36.4A	45.6A
Rated input voltage	220V/380V,230V/400V,3/N/PE			
Rated input frequency	50/60Hz			
OUTPUT AC (Back-up)				
Rated output power	8kW	10kW	12kW	15kW
Max. output current	12.1A	15.2A	18.2A	22.7A
Back-up switch time	< 4 ms			
Rated output voltage	220V/380V,230V/400V,3/N/PE			
Rated frequency	50/60Hz			
THDv	<3%			
EFFICIENCY				
Max.efficiency	97.34%			
EU efficiency	96.45%			
BAT charged/discharged Max. efficiency	93.90%			
MPPT Efficiency	99.80%			
PROTECTION				
Integrated DC switch	Yes			
DC rever-polarity protection	Yes			
Anti-islanding protection	Yes			
Output over currentprotection	Yes			
Insulation impedance detection	Yes			
Ground Fault Monitoring	Yes			
Residual leakage current detection	Yes			
DC/AC Surge protection	DC Type II / AC Type II			
DC arc-fault circuit protection	Optional			
GENERAL DATA				
Dimensions (W*H*D)	370*650*262 mm			370*650*300 mm
Weight	38.6kg			37.7kg
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	IP 66			
Topology Structure	Transformerless			
Type of DC terminal	MC4 connector			
Battery connection type	Compression type terminal			
Type of AC terminal (Back-up)	Compression type terminal			
Type of AC terminal (Grid side)	Compression type terminal			
DISPLAY&COMMUNICATION				
Display	LED+Bluetooth+APP (Optional:LCD)			
Communication	RS485 / CAN, WIFI+Bluetooth, Optional:WLAN/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 recent version at the moment of signing the contract.