

LOW VOLTAGE HYBRID INVERTER

(THREE PHASE)

ASG-(3.6-12)TL-ZL

NEW



KEY FEATURES



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 & 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.

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

	ASG-3.6TL-ZL	ASG-4TL-ZL	ASG-5TL-ZL	ASG-6TL-ZL	ASG-8TL-ZL	ASG-10TL-ZL	ASG-12TL-ZL
PV INPUT							
Max. PV access power	7.2kW	8kW	10KW	12KW	16KW	20KW	24KW
Max. PV input power	5.4kW	6kW	7.5kW	9kW	12kW	15kW	18kW
Max. input voltage	1000V						
Rated PV input voltage	600V						
Start-up voltage	160V						
MPPT voltage range	170-900V						
Max. PV input current	16A/16A				26A/26A		
Max. short circuit current	20A/20A				32A/32A		
MPPT number/Max. input strings number	2/2				2/4		
BATTERY							
Battery type	Lead-acid or Li-ion						
Rated battery voltage	48V						
Battery voltage range	40-60V						
Max. charge / discharge current	250A/250A						
Communication	CAN/RS485						
Charging strategy for Li-Ion battery	Self-adaption to BMS						
AC OUTPUT							
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. apparent output power	3.6kVA	4kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Output voltage range	165-288V(Phase voltage),286-498V(Line voltage)						
Rated output frequency/ frequency range	50Hz/60Hz (±5Hz)						
Rated output current	5.2A	5.8A	7.3A	8.7A	11.6A	14.5A	17.4
Max. output current	8.3A	9.2A	11.4A	13.6A	18.2A	22.7A	27.3A
Power factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
AC INPUT							
Rated input power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. input power	7.2kW	8kW	10kW	12kW	16kW	20kW	24kW
Rated input voltage	220V/380V,230V/400V,3L/N/PE						
Rated input frequency	50/60Hz						
Max. input current	11A	12.2A	15.2A	18.2A	24.2A	30.3A	36.4A
BACK-UP OUTPUT							
Rated output power	3.6kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. ouput power	2 times of rated power, 10 s						
Rated output voltage	220V/380V,230V/400V,3L/N/PE						
Rated output frequency	50/60Hz						
Max. output current	5.5A	6.1A	7.6A	9.1A	12.1A	15.2A	18.2A
Back-up switch time	<4ms						
THDv	<3%						
EFFICIENCY							
MPPT efficiency	99.80%						
Max. efficiency	97.34%						
EU efficiency	96.45%						
BAT charged/discharged Max. efficiency	93.90%						
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						
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)	380*625*270mm						
Weight	39kg						
Type of PV terminal	MC4 connector						
Type of AC terminal (Grid side)	Terminal						
COMMUNICATION							
Display	LCD+LED+Bluetooth+APP						
Communication	WIFI+Bluetooth,Optional:GPRS,LAN ;BMS:RS485/CAN						
CERTIFICATION							
Grid standards	IEC 61727/62116,IEC 61683,NRS 097,EN 50549,PEA						
Safety/EMC	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11/12						

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.