

HIGH VOLTAGE HYBRID INVERTER (THREE PHASE)



ASG-5TL-ZH

ASG-6TL-ZH

ASG-8TL-ZH

ASG-10TL-ZH

ASG-12TL-ZH

ASG-15TL-ZH

ASG-20TL-ZH



High Efficiency

- » 180-800V ultra-wide battery voltage range, compatible with more battery capacity
- » String current up to 18A
- » 2x prolonged off-grid overload capability



Smart

- » Supports grid-connected and off-grid three-phase unbalanced outputs, single-phase outputs up to 150%
- » Compatible with diesel generators, can control the generator automatically start and stop
- » Supports up to 16 off-grid parallel work



User-Friendly

- » A variety of operating modes can be selected, suitable for different application scenarios
- » <10ms UPS-level switching
- » 6 editable charge/discharge times
- » Smart Meter Phase Sequence Automatic Detection



Safe & Reliable

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



Economical & Cost-Saving

- » Supporting AC coupling and transforming PV grid-connected systems
- » Support for dynamic tariffs
- » Support for the "peak shaving" model

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-5TL-ZH	ASG-6TL-ZH	ASG-8TL-ZH	ASG-10TL-ZH	ASG-12TL-ZH	ASG-15TL-ZH	ASG-20TL-ZH
PV INPUT							
Max.input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW	30kW
Max.input voltage	1000V						
Rated voltage	600V						
Start-up voltage	160V						
MPPT voltage range	170-900V						
Max.input current	16A/16A	26A/26A				36A/36A	36A/36A
Max.short circuit current	20A/20A	32A/32A				45A/45A	45A/45A
MPPT number	2	2					
Max. input strings number	2	4					
BATTERY							
Battery type	Li-ion						
Battery Voltage Range	180-800V						
Number of battery input channels	1					2	
Max. charge / discharge current	30A/30A					2*30A/2*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	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. apparent output power	5kVA	6kVA	8kVA	10kVA	12kVA	15kVA	20kVA
Max. output current	11.4A	13.6A	18.2A	22.7A	27.3A	34.1A	45.5A
Grid voltage range	165-288V(Phase voltage),286-498V(Line voltage)						
Rated grid voltage	220V/380V,230V/400V,3/N/PE						
Rated grid frequency	50Hz/60Hz						
Power Factor	>0.99 (0.8 leading ... 0.8 lagging)						
THDi	<3%						
INPUT AC (Grid Side)							
Rated input power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. input power	10kW	12kW	16kW	20kW	24kW	30kW	30kW
Max. apparent input power	10kVA	12kVA	16kVA	20kVA	24kVA	30kVA	30kVA
Max. input current	15.2A	18.2A	24.2A	30.3A	36.4A	45.5A	45.5A
Rated input voltage	220V/380V,230V/400V,3/N/PE						
Rated input frequency	50 Hz / 60 Hz						
OUTPUT AC (Back-up)							
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW	20kW
Max. output current	7.6A	9.1A	12.1A	15.2A	18.2A	22.7A	30.3A
Back-up switch time	<10ms						
Rated output voltage	220V/380V,230V/400V,3/N/PE						
Rated frequency	50 Hz / 60 Hz						
THDv	<2%						
EFFICIENCY							
Max.efficiency	97.34%						
EU efficiency	96.45%						
BAT charged/discharged Max. efficiency	97.35%						
MPPT Efficiency	99.80%						
PROTECTION							
Integrated DC switch	Yes						
DC rever-polarity protection	Yes						
Anti-islanding protection	Yes						
Short circuit protection	Yes						
Insulation impedance detection	Yes						
Ground Fault Monitoring	Yes						
Residual leakage current detection	Yes						
DC/AC Surge protection	DC Type II / AC Type II						
Integrated AFCI (DC arc-fault circuit protection)	Optional						
GENERAL DATA							
Dimensions (W*H*D)	561*520*232m						
Weight	33.2kg				37.8kg		
Self consumption(night) (Rated voltage)	≤20W						
Operating temperature range	-30...+60 C						
Cooling concept	Natural Cooling					Natural Cooling	
Max. operation altitude	4000m (Derating above 3000m)						
Relative humidity	0-100%						
Ingress protection	IP66						
Topology Structure	Transformerless						
Type of DC terminal	MC4 connector						
Battery connection type	MC4 connector						
Type of AC terminal (Back-up)	Quick connection plug						
Type of AC terminal (Grid side)	Quick connection plug						
DISPLAY&COMMUNICATION							
Display	LED+Bluetooth+APP (Optional:LCD)						
Communication	RS485,WIFI, 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.