



C&I HYBRID INVERTER (THREE PHASE)

ASG-30TL-ZH

ASG-40TL-ZH

ASG-50TL-ZH



High Efficiency

- » String current up to 20A
- » 2x prolonged off-grid overload capability



Smart

- » Supports grid-connected and off-grid three-phase unbalanced outputs, single-phase outputs up to 150%
- » Integrated Intelligent Management System



User-Friendly

- » A variety of operating modes can be selected, suitable for different application scenarios
- » 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 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-30TL-ZH	ASG-40TL-ZH	ASG-50TL-ZH
INPUT DC			
Max. input power	60kW	80kW	100kW
Max. input voltage		1000V	
Rated voltage		600V	
Start-up voltage		160V	
MPPT voltage range		150-850V	
Max. input current	40A*3		40A*4
Max. short circuit current	50A*3		50A*4
MPPT number	3		4
Max. input strings number	6		8
INPUT BATTERY			
Battery type		Lithium-ion	
Battery Voltage Range		150-800V	
Number of battery input channels		2	
Max. charge / discharge current		80A+80A	
Communication		CAN/RS485	
Charging Strategy for Li-Ion Battery		Self-adaption to BMS	
OUTPUT AC (Grid Side)			
Rated output power	30kW	40kW	50kW
Max. apparent output power	33kVA	44kVA	55kVA
Max. output power	33kW	44kW	55kW
Max. output current	50.1A	66.9A	83.6A
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	60kW	80kW	100kW
Max. input power	60kVA	80kVA	100kVA
Max. apparent input power	60kW	80kW	100kW
Max. input current	100.2A	133.8A	150A
Rated input voltage		220V/380V,230V/400V,3/N/PE	
Rated input frequency		50Hz/60Hz	
OUTPUT AC (Back-up)			
Rated output power	30kW	40kW	50kW
Max. output current	45.6A	60.7A	75.9A
Back-up switch time		<10ms	
Rated output voltage		220V/380V,230V/400V,3/N/PE	
Rated frequency		50Hz/60Hz	
THDv		<2%	
EFFICIENCY			
Max. efficiency		98.1%	
EU efficiency		97.6%	
BAT charged/discharged Max. efficiency		97.4%/98.5%	
MPPT Efficiency		>99.8%	
PROTECTION			
Integrated DC switch		Yes	
DC rever-polarity protection		Yes	
Battery reverse 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	
I/V Curve scanning		Yes	
DC arc-fault circuit protection		Optional	
GENERAL DATA			
Dimensions (W*H*D)		527*895*294mm	
Weight		≤80kg	
Self consumption(night) (Rated voltage)		≤20W	
Operating temperature range		-30...+60 °C	
Cooling concept		Smart Fan 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		Terminal connector	
Type of AC terminal (Back-up)		OT terminal	
Type of AC terminal (Grid side)		OT terminal	
DISPLAY&COMMUNICATION			
Display		LED+Bluetooth+APP (Optional:LCD)	
Communication		RS485,WIFI, Optional: WLAN	

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.