

# AUXSOL

WIN A GREEN FUTURE TOGETHER

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History

\$ 12

Revenue in 2023

5

Business Industries

\$ 10

Assets

500

China's Top

30000+

Employees

- Ningbo AUX Solar Technology Co., Ltd. ("AUX Solar") is a wholly-owned subsidiary of Ningbo AUX Smart Technology CO., LTD. With registered capital of USD 44 million, AUX Solar specializes in on-grid inverters, hybrid inverters, battery packs and energy storage systems.
- AUX Group was founded in 1986, for many years it ranked China's top 500 enterprises. AUX Group covers several industries: home appliances, electrical equipment, medical service, real estate and investment. It has two listed companies (601567.SH, 02080.HK).
- AUX Group always strictly adheres to the philosophy of "Quality First", so does AUX Solar, which has over 100 employees and has been certified by ISO 9001 & ISO 14001 & ISO 45001.
- In line with the development trend of global new energy industry, combining with 30+ years R&D experience of AUX Group, AUX Solar commits to providing a complete system solution for our customers with our high quality, efficient, reliable and user-friendly solar products.















- Up till now, AUX Solar has set up two R&D centers in Ningbo and Shenzhen as well as service centers in Brazil, Colombia, Poland, Bangladesh and Indonesia, building a marketing service system covering global solar markets.
- In the future, AUX Solar will improve its industrial layout of new energy with continuous innovation and dedication to solar industry, with the ultimate goal of promoting energy reform worldwide and rendering green energy available to thousands of households.



# GROUP

Established in 1986, AUX Group is an enterprise which covers **5** industries. It ranked China's top **500** enterprises for consecutive years. **30000+** employees keep AUX fast development for recent years.

# AUX

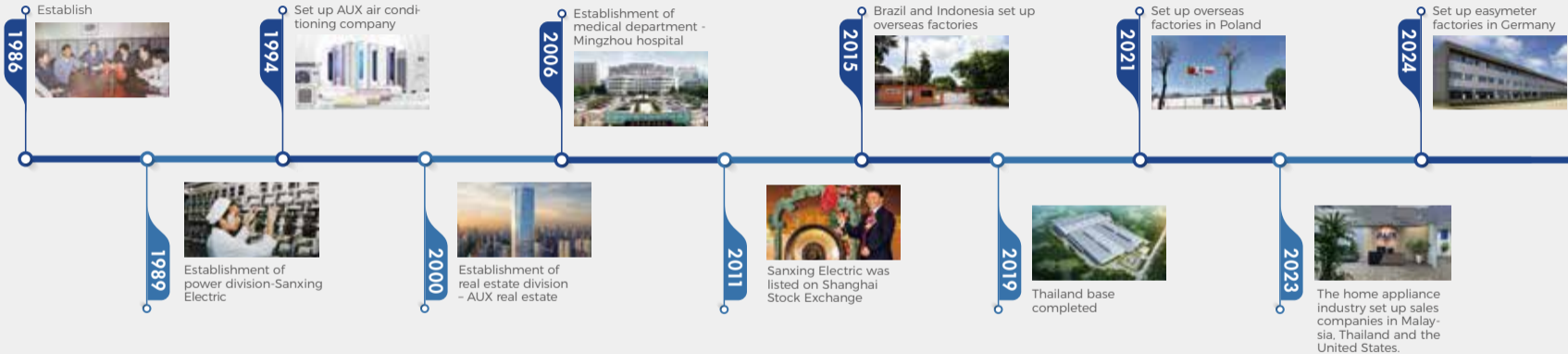
						
<b>YINZHOU, NINGBO</b>	<b>JIANGBEI, NINGBO</b>	<b>GAOXIN, NINGBO</b>	<b>NANCHANG</b>	<b>TIANJIN</b>	<b>WUHU</b>	<b>ZHENGZHOU</b>
1000,000 m <sup>2</sup>	367,000 m <sup>2</sup>	283,000 m <sup>2</sup>	820,000 m <sup>2</sup>	350,000 m <sup>2</sup>	400,000 m <sup>2</sup>	1000,000 m <sup>2</sup>
						
<b>MAANSHAN</b>	<b>BRAZIL</b>	<b>INDONESIA</b>	<b>THAILAND</b>	<b>POLAND</b>	<b>GERMANY</b>	<b>MEXICO</b>
660,000 m <sup>2</sup>	8,000 m <sup>2</sup>	7,000 m <sup>2</sup>	11,300 m <sup>2</sup>	3,300 m <sup>2</sup>	2000 m <sup>2</sup>	8000 m <sup>2</sup>

## 6 R&D Centers



**14 Manufacturing Bases**  
**11 Overseas Companies**

# Milestone AUX Group



## R&D Strength

Ningbo AUXSOL Technology Co., Ltd. (hereinafter referred to as 'AUXSOL'), with a registered capital of USD 44 million, is a wholly-owned subsidiary of AUX group, a new energy platform focusing on the research and development, production and service of photovoltaic grid-connected inverters, energy storage inverters, battery packs and energy storage systems.

Since its establishment, the company has focused on building the core advantages of products, technology, market and service. It has passed ISO9001, ISO14001, and ISO45001 system certifications. The company's photovoltaic inverters have been certified by CQC, CCC, VDE-AR-N 4105 and many other domestic and foreign professional institutions.

It has two major R&D centers in Ningbo and Shenzhen, 21 domestic after-sales service networks, and overseas service centers in Brazil, Poland, Germany and other places to build a global photovoltaic marketing system.

Under the leadership of the national "dual-carbon" policy, in line with the development trend of the new energy industry, the company combines more than 30 years of product research and development experience with photovoltaic technology innovation to create "leading quality, efficient, reliable, intelligent and friendly" smart photovoltaic products and overall solutions.

In the future, AUXSOL will continue to innovate, deepen the photovoltaic industry chain, improve the layout of the new energy industry, and promote the world with science and technology.



## Global Certifications

1 EN 50549-1



2 EN IEC 62109



3 EN 61000



4 NC-RFG



5 UNE



6 IEC 61727



7 IEC 62116



8 IEC 61683



9 INMETRO



10 VDE4105



# AUX

## ONE-STOP HOME ENERGY MANAGEMENT SYSTEM



**APP**



REMOTE MONITORING

**ONE-STOP**

All Developed and Manufactured By AUX

**150%**

PV Input Power

**10ms**

Automatic Switching

**16**

Max. 16 machines in parallel

**5m**

Battery Drop Test

**IP66**

Water/dust Protection

**8time**

Battery dis-/charging period



## Product Introduction-On-Grid



3-6 kW-G2  
SINGLE PHASE



3.6-6 kW  
SINGLE PHASE



7-10 kW  
SINGLE PHASE



5-15 kW-G2  
THREE PHASE



5-25 kW  
THREE PHASE



30 kW-G2  
THREE PHASE



33-40 kW  
THREE PHASE

### Residential On-Grid Solution



(10-15)kW-LV  
THREE PHASE



(20-25)kW-LV  
THREE PHASE

### Residential On-Grid Solution



50-80 kW-G2  
(30-40)kW-LV-G2  
THREE PHASE



70-110 kW  
(35-75)kW-LV  
THREE PHASE



300-330 kW  
THREE PHASE

### C&I On-Grid Solution

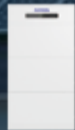
## Product Introduction-Energy Storage



3.6-6 kW  
SINGLE PHASE



5-20 kW  
THREE PHASE



5.3-26.5kWh  
BATTERY



5-32 kW  
BATTERY

### Residential Hybrid Solution



3.6-6 kW-LV  
SINGLE PHASE



5-12 kW-LV  
THREE PHASE



5-10 kWh  
BATTERY



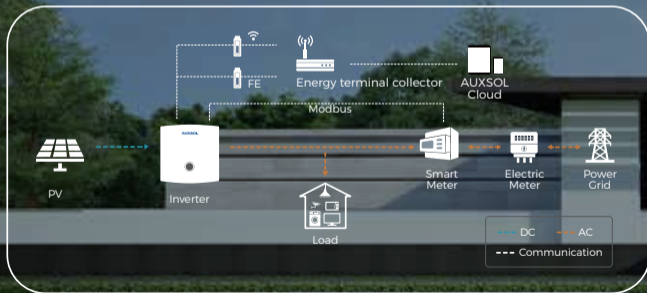
16 kWh  
BATTERY

### Residential Battery-LV Solution

# Residential On-Grid Solution

The household system solution mainly consists of components such as photovoltaics, inverters, and grid cages. Our household grid connected photovoltaic system solution covers a power range of 5-40kW and can be applied to different distributed household photovoltaic projects, providing better energy solutions for different households.

- The AUXSOL household product series mainly consists of small three-phase series inverters for household use, supporting 4G/wifi/RS485 communication to access the cloud monitoring platform
- The product can provide high-quality photovoltaic systems through different application scenarios and requirements
- Users can download monitoring apps from their computers or mobile phones to view their earnings in real-time on the intelligent monitoring platform, making the operation more convenient and easy to manage



# SINGLE PHASE ON-GRID INVERTER

ASN-3SL

ASN-3.3SL

ASN-3.6SL-G2

ASN-4SL-G2

ASN-4.6SL-G2

ASN-5SL-G2

ASN-6SL-G2



40V start-up voltage



Max. efficiency 97.5%



Max. IP66 protection



Max. 150% DC/AC ratio



Optional AFCI function



Wide range of MPPT voltage



	ASN-3SL	ASN-3.3SL	ASN-3.6SL-G2	ASN-4SL-G2	ASN-4.6SL-G2	ASN-5SL-G2	ASN-6SL-G2
<b>Input DC</b>							
Max input power	4.5kW	4.95kW	5.4kW	6kW	6.9kW	7.5kW	9kW
Max input voltage	550V				550V		
Rated voltage	360V				360V		
Start-up voltage	40V				40V		
MPPT voltage range	40-520V				40-520V		
Max input current	18A				18A/18A		
Max short circuit current	22A				22A/22A		
MPPT number	1				2		
Max. input strings number	1				2		
<b>Output AC</b>							
Rated output power	3kW	3.3kW	3.6kW	4kW	4.6kW	5kW	6kW
Max apparent output power	3.3kVA	3.9kVA	3.9kVA	4.4kVA	5.0kVA	5.5kVA	6kVA
Max output power	3.3kW	3.3kW	3.9kW	4.4kW	5.0kW	5.5kW	6kW
Rated grid voltage	1/N/PE, 220V/230V/240V				1/N/PE, 220V/230V/240V		
Rated grid frequency	50Hz/60Hz				50Hz/60Hz		
Rated grid output current	13.6A	15A	16.4A	18.2A	20.9A	22.7A	27.3A
Max output current	15A	15A	18A	20A	23A	25A	27.3A
Power factor	1 (0.8 Leading - 0.8 Lagging)				1 (0.8 Leading - 0.8 Lagging)		
THDi	<3%				<3%		
<b>Efficiency</b>							
Max. efficiency	97.5%				97.5%		
EU efficiency	97.0%				97.0%		
<b>Protection</b>							
Integrated DC switch	Yes				Yes		
DC-reverse polarity protection	Yes				Yes		
Anti-islanding protection	Yes				Yes		
Short circuit Protection	Yes				Yes		
Output over current protection	Yes				Yes		
Strings monitoring	Yes				Yes		
DC Surge protection	Type II				Type II		
AC Surge protection	Type II				Type II		
Insulation impedance detection	Yes				Yes		
Residual leakage current detection	Yes				Yes		
Temperature protection	Yes				Yes		
AC Over voltage protection	Yes				Yes		
DC Over current protection	Yes				Yes		
Anti-backflow	Optional				Optional		
Integrated AFCI (DC arc-fault circuit protection)	Optional				Optional		
<b>General Data</b>							
Dimensions (W*H*D)	276*242*139mm				330*268*168mm		
Weight	5.4kg				7.8kg		
Self consumption (night)	<1W				<1W		
Operating temperature range	-30 ~ +40°C				-30 ~ +40°C		
Cooling concept	Natural Cooling				Natural Cooling		
Max. operation altitude	4000m (Derating above 3000m)				4000m (Derating above 3000m)		
Relative humidity	0-100%				0-100%		
Ingress protection	IP66				IP66		
Topology structure	Transformerless				Transformerless		
Grid connection standard	INMETRO 140, INMETRO 515				INMETRO 140, INMETRO 515, EN 50549-1, IEC 61727, IEC 62116, IEC 61683, IEC 61700, IEC 61701, IEC 61702, IEC 61703, IEC 61704, IEC 61705, IEC 61706, IEC 61707, IEC 61708, IEC 61709, IEC 61710, IEC 61711, IEC 61712, IEC 61713, IEC 61714, IEC 61715, IEC 61716, IEC 61717, IEC 61718, IEC 61719, IEC 61720, IEC 61721, IEC 61722, IEC 61723, IEC 61724, IEC 61725, IEC 61726, IEC 61727, IEC 61728, IEC 61729, IEC 61730, IEC 61731, IEC 61732, IEC 61733, IEC 61734, IEC 61735, IEC 61736, IEC 61737, IEC 61738, IEC 61739, IEC 61740, IEC 61741, IEC 61742, IEC 61743, IEC 61744, IEC 61745, IEC 61746, IEC 61747, IEC 61748, IEC 61749, IEC 61750, IEC 61751, IEC 61752, IEC 61753, IEC 61754, IEC 61755, IEC 61756, IEC 61757, IEC 61758, IEC 61759, IEC 61760, IEC 61761, IEC 61762, IEC 61763, IEC 61764, IEC 61765, IEC 61766, IEC 61767, IEC 61768, IEC 61769, IEC 61770, IEC 61771, IEC 61772, IEC 61773, IEC 61774, IEC 61775, IEC 61776, IEC 61777, IEC 61778, IEC 61779, IEC 61780, IEC 61781, IEC 61782, IEC 61783, IEC 61784, IEC 61785, IEC 61786, IEC 61787, IEC 61788, IEC 61789, IEC 61790, IEC 61791, IEC 61792, IEC 61793, IEC 61794, IEC 61795, IEC 61796, IEC 61797, IEC 61798, IEC 61799, IEC 61800, IEC 61801, IEC 61802, IEC 61803, IEC 61804, IEC 61805, IEC 61806, IEC 61807, IEC 61808, IEC 61809, IEC 61810, IEC 61811, IEC 61812, IEC 61813, IEC 61814, IEC 61815, IEC 61816, IEC 61817, IEC 61818, IEC 61819, IEC 61820, IEC 61821, IEC 61822, IEC 61823, IEC 61824, IEC 61825, IEC 61826, IEC 61827, IEC 61828, IEC 61829, IEC 61830, IEC 61831, IEC 61832, IEC 61833, IEC 61834, IEC 61835, IEC 61836, IEC 61837, IEC 61838, IEC 61839, IEC 61840, IEC 61841, IEC 61842, IEC 61843, IEC 61844, IEC 61845, IEC 61846, IEC 61847, IEC 61848, IEC 61849, IEC 61850, IEC 61851, IEC 61852, IEC 61853, IEC 61854, IEC 61855, IEC 61856, IEC 61857, IEC 61858, IEC 61859, IEC 61860, IEC 61861, IEC 61862, IEC 61863, IEC 61864, IEC 61865, IEC 61866, IEC 61867, IEC 61868, IEC 61869, IEC 61870, IEC 61871, IEC 61872, IEC 61873, IEC 61874, IEC 61875, IEC 61876, IEC 61877, IEC 61878, IEC 61879, IEC 61880, IEC 61881, IEC 61882, IEC 61883, IEC 61884, IEC 61885, IEC 61886, IEC 61887, IEC 61888, IEC 61889, IEC 61890, IEC 61891, IEC 61892, IEC 61893, IEC 61894, IEC 61895, IEC 61896, IEC 61897, IEC 61898, IEC 61899, IEC 61900, IEC 61901, IEC 61902, IEC 61903, IEC 61904, IEC 61905, IEC 61906, IEC 61907, IEC 61908, IEC 61909, IEC 61910, IEC 61911, IEC 61912, IEC 61913, IEC 61914, IEC 61915, IEC 61916, IEC 61917, IEC 61918, IEC 61919, IEC 61920, IEC 61921, IEC 61922, IEC 61923, IEC 61924, IEC 61925, IEC 61926, IEC 61927, IEC 61928, IEC 61929, IEC 61930, IEC 61931, IEC 61932, IEC 61933, IEC 61934, IEC 61935, IEC 61936, IEC 61937, IEC 61938, IEC 61939, IEC 61940, IEC 61941, IEC 61942, IEC 61943, IEC 61944, IEC 61945, IEC 61946, IEC 61947, IEC 61948, IEC 61949, IEC 61950, IEC 61951, IEC 61952, IEC 61953, IEC 61954, IEC 61955, IEC 61956, IEC 61957, IEC 61958, IEC 61959, IEC 61960, IEC 61961, IEC 61962, IEC 61963, IEC 61964, IEC 61965, IEC 61966, IEC 61967, IEC 61968, IEC 61969, IEC 61970, IEC 61971, IEC 61972, IEC 61973, IEC 61974, IEC 61975, IEC 61976, IEC 61977, IEC 61978, IEC 61979, IEC 61980, IEC 61981, IEC 61982, IEC 61983, IEC 61984, IEC 61985, IEC 61986, IEC 61987, IEC 61988, IEC 61989, IEC 61990, IEC 61991, IEC 61992, IEC 61993, IEC 61994, IEC 61995, IEC 61996, IEC 61997, IEC 61998, IEC 61999, IEC 62000		
Type of DC terminal	MC4 connector				MC4 connector		
Type of AC terminal	Quick connection plug				Quick connection plug		
<b>Display &amp; Communication</b>							
Display	LCD+LED+Bluetooth+APP				LCD+LED+Bluetooth+APP		
Communication Interface	RS485, Optional: WiFi, LAN				RS485, Optional: WiFi, LAN		



# SINGLE PHASE ON-GRID INVERTER

ASN-3.6SL-PLUS ASN-4SL-PLUS ASN-4.6SL-PLUS ASN-5SL-PLUS ASN-6SL-PLUS

ASN-7SL ASN-8SL ASN-9SL ASN-10SL

- 80V start-up voltage
- Max. efficiency 98.1%
- Max. IP66 protection
- Max. 150% DC/AC ratio
- AFCI Optional AFCI function
- Wide range of MPPT voltage

	ASN-3.6SL-PLUS	ASN-4SL-PLUS	ASN-4.6SL-PLUS	ASN-5SL-PLUS	ASN-6SL-PLUS	ASN-7SL	ASN-8SL	ASN-9SL	ASN-10SL
<b>Input DC</b>									
Max input power	5.4kW	6kW	6.9kW	7.5kW	9kW	10.5kW	12kW	18kW	20kW
Max input voltage	550V					600V			
Rated voltage	380V					380V			
Start-up voltage	80V					80V		40V	
MPPT voltage range			80-520V			80-520V		40-520V	
Max input current	16A/16A					27A/16A		30A/16A	
Max short circuit current	20A/20A					35A/20A		40A/20A	
MPPT number	2					2		2	2
Max. input strings number	2					3		2	3
MPPT Range Full Load	180-500V	190-500V	200-500V	210-500V	230-500V	/		/	/
<b>Output AC</b>									
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	7kW	8kW	9kW	10kW
Max apparent output power	3.9kVA	4.4kVA	5.0kVA	5.5kVA	6kVA	7.3kVA	8.3kVA	9kVA	10kVA
Max output power	3.9kW	4.4kW	5.0kW	5.5kW	6kW	7.3kW	8kW	9kW	10kW
Rated grid voltage			1/N/PE, 220V/230V/240V				1/N/PE, 220V/230V/240V		
Rated grid frequency			50Hz/60Hz				50Hz/60Hz		
Rated grid output current	16.4A	18.2A	20.9A	22.7A	27.3A	31.8A	36.4A	40.9A	45.5A
Max output current	18A	20A	23A	25A	27.3A	34A	36.4A	40.9A	45.5A
Power factor			1 (0.8 Leading - 0.8 Lagging)				1 (0.8 Leading - 0.8 Lagging)		
THDi			<3%				<3%		
<b>Efficiency</b>									
Max. efficiency			97.5%				97.82%		98.1%
EU efficiency			97.0%				97.32%		97.6%
<b>Protection</b>									
Integrated DC switch			Yes				Yes		
DC-reverse polarity protection			Yes				Yes		
Anti-islanding protection			Yes				Yes		
Short circuit Protection			Yes				Yes		
Output over current protection			Yes				Yes		
Strings monitoring			Yes				/		
DC Surge protection			Type II				Type II		
AC Surge protection			Type II				Type II		
Insulation impedance detection			Yes				Yes		
Residual leakage current detection			Yes				Yes		
Temperature protection			Yes				Yes		
AC Over voltage protection			Yes				Yes		
DC Over current protection			Yes				Yes		
Anti-backflow			Optional				Optional		
Integrated AFCI (DC arc-fault circuit protection)			Optional				Optional		
<b>General Data</b>									
Dimensions (W*H*D)			352*430*152mm				400*383*177mm		
Weight			11kg				15.6kg		
Self consumption (night)			<1W				<0.3W		<1W
Operating temperature range			-30...+40°C				-25...+40°C		-30...+40°C
Cooling concept			Natural Cooling				Natural Cooling		Natural Cooling
Max. operation altitude			4000m (Derating above 3000m)				4000m (Derating above 3000m)		4000m (Derating above 3000m)
Relative humidity			0-100%				0-100%		0-100%
Ingress protection			IP66				IP66		IP66
Topology structure			Transformerless				Transformerless		Transformerless
Grid connection standard			EN 50549-1, IEC 61727, IEC 62116, IEC 61683, IEC 61702, IEC 61702, NTS 431, PORTARIA N°515, IEC 6307				EN 50549-1, IEC 61727, IEC 62116, IEC 61683, IEC 61702, IEC 61702, NTS 431		EN 50549-1, IEC 61727, IEC 62116, IEC 61683, IEC 61702, IEC 61702, NTS 431
Safety/EMC standard			IEC/EN 62109-1/2, EN IEC 61000-4-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12				IEC/EN 62109-1/2, EN IEC 61000-4-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12		IEC/EN 62109-1/2, EN IEC 61000-4-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12
Type of DC terminal			MC4 connector				MC4 connector		MC4 connector
Type of AC terminal			Quick connection plug				Quick connection plug		Quick connection plug
<b>Display&amp;Communication</b>									
Display			LCD+LED+Bluetooth+APP				LED+Bluetooth+APP		LED+Bluetooth+APP+Optional LCD
Communication Interface			RS485, Optional: WiFi, LAN				RS485, Optional: WiFi, LAN		RS485, Optional: WiFi, LAN



# THREE PHASE ON-GRID INVERTER

- ASN-5TL-G2
- ASN-6TL-G2
- ASN-8TL-G2
- ASN-10TL-G2
- ASN-12TL-G2
- ASN-15TL-G2

- String current up to 20A
- Wide range of MPPT voltage
- Max. 150% DC/AC ratio
- Max. efficiency 98.6%
- AFCI Optional AFCI function
- Max. IP66 protection



	ASN-5TL-G2	ASN-6TL-G2	ASN-8TL-G2	ASN-10TL-G2	ASN-12TL-G2	ASN-15TL-G2
<b>Input DC</b>						
Max input power	7.5kW	9kW	12kW	15kW	18kW	22.5kW
Max input voltage				1100V		
Rated voltage				600V		
Start-up voltage				140V		
MPPT voltage range				140-1000V		
Max input current				20A/20A	26A/20A	
Max short circuit current				25A/25A	32A/25A	
MPPT number				2	2	
Max input strings number				2	3	
<b>Output AC</b>						
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW
Max apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA
Max output power	5.5kW	6.6kW	8.8kW	11kW	13.2kW	16.5kW
Rated grid voltage				220V/230V/400V/3N/PE		
Grid voltage range				142-300V(Phase voltage,280-520V(Line voltage))		
Rated grid frequency				50Hz/60Hz		
Rated grid output current	7.2A	8.7A	11.5A	14.4A	17.3A	21.7A
Max output current	7.6A	9.5A	12.7A	15.9A	19.1A	23.8A
Power factor				1.0(B Leading - 0.8Lagging)		
THDi				<3%		
<b>Efficiency</b>						
Max. efficiency				98.60%		
EU efficiency				98.3%		
MPPT efficiency				99.80%		
<b>Protection</b>						
Integrated DC switch				Yes		
DC reverse polarity protection				Yes		
Anti-islanding protection				Yes		
Short circuit protection				Yes		
Output over current protection				Yes		
DC Surge protection				Type II		
AC Surge protection				Type II		
Insulation impedance detection				Yes		
Ground fault monitoring				Yes		
Residual leakage current detection				Yes		
Temperature protection				Yes		
AC Over voltage protection				Yes		
DC Over current protection				Yes		
UV Curve scanning				Yes		
24-hour load monitoring				Optional		
Anti-backflow				Optional		
Integrated AFCI (DC arc-fault circuit protection)				Optional		
<b>General Data</b>						
Dimensions(W*H*D)				448*330*174mm		
Weight				12.6kg		15.1kg
Self Consumption(Inight)				< 1W		
Operating Temperature Range				-30 ~ +60°C		
Cooling Concept				Natural Cooling		
Max. Operation Altitude				4000m (Derating above 3000m)		
Relative Humidity				0-100%		
Ingress Protection				IP66		
Topology Structure				Transformerless		
Grid connection standard/Safety/EMC standard				IEC/EN 62109-1/2,EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12,NB/T32004,EN 50549-1,CGC/GF 035-2013,VDE-AR-N 4105		
Type of DC terminal				MC4 connector		
Type of AC terminal				Quick connection plug		
<b>Display&amp;Communication</b>						
Display				LED+Bluetooth+APP (Optional LCD)		
Communication Interface				RS485,Optional WiFi,4G,LAN		



## THREE PHASE ON-GRID INVERTER



ASN-5TL ASN-6TL ASN-8TL ASN-10TL

ASN-12TL ASN-15TL ASN-17TL ASN-20TL ASN-23TL ASN-25TL

- String current up to 16A
- Wide range of MPPT voltage
- Max. 150% DC/AC ratio
- Max. efficiency 98.5%
- Optional AFCI function
- Max. IP66 protection

	ASN-5TL	ASN-6TL	ASN-8TL	ASN-10TL	ASN-12TL	ASN-15TL	ASN-17TL	ASN-20TL	ASN-23TL	ASN-25TL
<b>Input DC</b>										
Max input power	7.5kW	9kW	12kW	15kW	18kW	22kW	22kW	26kW	33kW	32kW
Max input voltage	1100V									
Rated voltage	620V									
Start-up voltage	200V									
MPPT voltage range	200-1000V									
Max input current			16A/16A				32A/16A	32A/32A		
Max short circuit current			20A/20A				40A/20A	40A/40A		
MPPT number			2				2	2		
Max input string number			2				3	4		
<b>Output AC</b>										
Rated output power	5kW	6kW	8kW	10kW	12kW	15kW	17kW	20kW	23kW	25kW
Max apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	18.7kVA	22kVA	25.3kVA	27.5kVA
Rated grid voltage	220V/380V/230V/400V/3/N/PE									
Grid voltage range	178V-270V(Phase voltage),308-478V(Line voltage)									
Rated grid frequency	50Hz/60Hz									
Rated output current	7.6A	9.1A	12.1A	15.2A	18.2A	22.8A	25.7A	30.3A	34.8A	37.8A
Max output current	8.4A	10A	13.3A	16.7A	20.1A	25.1A	28.3A	33.3A	38.3A	39.8A
Power factor	1 (0.8 leading-0.8 lagging)									
THD	<3%									
<b>Efficiency</b>										
Max efficiency			98.30%				98.50%	98.50%		
EU efficiency			97.70%				97.80%	98%		
MPPT efficiency			99.80%				99.80%	99.80%		
<b>Protection</b>										
Integrated DC switch	Yes									
DC reverse polarity protection	Yes									
Anti-islanding protection	Yes									
Short circuit protection	Yes									
Output over current protection	Yes									
DC Surge protection	Type II									
AC Surge protection	Type II									
Insulation impedance detection	Yes									
Ground fault monitoring	Yes									
Residual leakage current detection	Yes									
Temperature protection	Yes									
AC Over voltage protection	Yes									
DC Over current protection	Yes									
String monitoring	Optional									
Anti-backflow	Optional									
Integrated AFCI (DC arc-fault circuit protection)	Optional									
UV Curve scanning	Optional									
<b>General Data</b>										
Dimensions (W*H*D)	455*462*214mm									
Weight	~25kg									
Self consumption(optional)	<1W									
Operating temperature range	-30 ~ +40°C									
Cooling concept	fan-cooling									
Max. operation altitude	4000m (Derating above 3000m)									
Relative humidity	0-100%									
Ingress protection	IP66									
Topology structure	Transformerless									
Grid connection standard	NB/T32004, EN 50549-1, IEC 61727, IEC 62116, IEC 61683, IEC 61700, IEC 61702, IEC 61703, IEC 61709, IEC 61710, IEC 61711, IEC 61712, IEC 61713, IEC 61714, IEC 61715, IEC 61716, IEC 61717, IEC 61718, IEC 61719, IEC 61720, IEC 61721, IEC 61722, IEC 61723, IEC 61724, IEC 61725, IEC 61726, IEC 61727, IEC 61728, IEC 61729, IEC 61730, IEC 61731, IEC 61732, IEC 61733, IEC 61734, IEC 61735, IEC 61736, IEC 61737, IEC 61738, IEC 61739, IEC 61740, IEC 61741, IEC 61742, IEC 61743, IEC 61744, IEC 61745, IEC 61746, IEC 61747, IEC 61748, IEC 61749, IEC 61750, IEC 61751, IEC 61752, IEC 61753, IEC 61754, IEC 61755, IEC 61756, IEC 61757, IEC 61758, IEC 61759, IEC 61760, IEC 61761, IEC 61762, IEC 61763, IEC 61764, IEC 61765, IEC 61766, IEC 61767, IEC 61768, IEC 61769, IEC 61770, IEC 61771, IEC 61772, IEC 61773, IEC 61774, IEC 61775, IEC 61776, IEC 61777, IEC 61778, IEC 61779, IEC 61780, IEC 61781, IEC 61782, IEC 61783, IEC 61784, IEC 61785, IEC 61786, IEC 61787, IEC 61788, IEC 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# THREE PHASE ON-GRID INVERTER

ASN-30TL-G2



Maximum string current of 20A



Wide range of MPPT voltage



Max. 150% DC/AC ratio



Max. efficiency 98.6%



Optional AFCI function



Max. IP66 protection



	ASN-30TL-G2
<b>Input DC</b>	
Max input power	45kW
Max input voltage	1100V
Rated voltage	620V
Start-up voltage	140V
MPPT voltage range	150-1000V
Max input current	40A/20A/50A
Max short circuit current	50A/40A/40A
MPPT number	3
Max input strings number	6
<b>Output AC</b>	
Rated output power	30kW
Max apparent output power	33kVA
Max output power	33kW
Rated grid voltage	220V/230V/400V/3/N/PE
Grid voltage range	192-300V(Phase voltage)/280-520V(Line voltage)
Rated grid frequency	50Hz/60Hz
Rated grid output current	43.3A
Max output current	47.5A
Power factor	10:8 leading / 0:8 lagging
THD	< 3%
<b>Efficiency</b>	
Max efficiency	98.6%
EU efficiency	98.2%
MPPT efficiency	99.8%
<b>Protection</b>	
Integrated DC switch	Yes
DC reverse polarity protection	Yes
Anti-islanding protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
DC Surge protection	Type II
AC Surge protection	Type II
Insulation impedance detection	Yes
Ground fault monitoring	Yes
Residual leakage current detection	Yes
Temperature protection	Yes
AC Over voltage protection	Yes
DC Over current protection	Yes
Strings monitoring	Optional
24-hour load monitoring	Optional
Integrated AFCI (DC arc-fault circuit protection)	Optional
Anti backflow	Optional
<b>General Data</b>	
Dimensions (W*H*D)	534*419*198mm
Weight	24.5kg
Self consumption (night)	< 1W
Operating temperature range	-30 ~ +60°C
Cooling concept	fan-cooling
Max. operation altitude	4000m (Derating above 3000m)
Relative humidity	0-100%
Ingress protection	IP66
Topology structure	Transformerless
Grid connection standard	NE/T2004, EN 50549-1, IEC 61727, IEC 62116, IEC 61683, VDE 4105
Safety/EMC standard	EN IEC61000-6-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12
Type of DC terminal	MCA connector
Type of AC terminal	OT terminal
<b>Display &amp; Communication</b>	
Display	LED + Bluetooth + APP (Optional LCD)
Communication interface	RS485, Optional WPI, I2C, LAN



# THREE PHASE ON-GRID INVERTER

ASN-33TL

ASN-36TL

ASN-40TL



Maximum string current of 20A



Wide range of MPPT voltage



Max. 15% DC/AC ratio



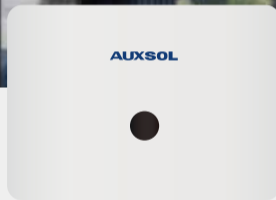
Max. efficiency 98.6%



AFCI Optional AFCI function



Max. IP66 protection



	ASN-33TL	ASN-36TL	ASN-40TL
<b>Input DC</b>			
Max input power	49.5kW	54kW	62kW
Max input voltage		1100V	
Rated voltage		600V	
Start-up voltage		180V	
MPPT voltage range		160-1000V	
Max input current	40A/40A/20A		40A/40A/20A/20A
Max short circuit current	50A/50A/25A		50A/50A/25A/25A
MPPT number	3		4
Max input string number	5		6
<b>Output AC</b>			
Rated output power	33kW	36kW	40kW
Max apparent output power	36.5kVA	39.2kVA	44kVA
Max output power	36.3kW	39.0kW	44kW
Rated grid voltage		220V/380V/230V/400V/3/N/PE	
Grid voltage range		162-300V(Phase voltage)/280-520V(Line voltage)	
Rated grid frequency		50Hz/60Hz	
Rated grid output current	47.6A	52A	57.7A
Max output current	52.4A	57.2A	63.5A
Power factor		1 (0.8 Leading ~ 0.8 Lagging)	
THDi		<3%	
<b>Efficiency</b>			
Max. Efficiency		98.6%	
IE3 Efficiency		98.3%	
MPPT efficiency		99.8%	
<b>Protection</b>			
Integrated DC switch		Yes	
DC reverse polarity protection		Yes	
Anti-islanding protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
DC Surge protection		Type II	
AC Surge protection		Type II	
Insulation impedance detection		Yes	
Ground fault monitoring		Yes	
Residual leakage current detection		Yes	
Temperature protection		Yes	
AC Over voltage protection		Yes	
DC Over current protection		Yes	
Strings monitoring		Optional	
24-hour load monitoring		Optional	
Integrated AFCI (DC arc fault circuit protection)		Optional	
Integrated PID recovery		Optional	
Anti-backflow		Optional	
<b>General Data</b>			
Dimensions (W*H*G)		568*443*228mm	
Weight		35kg	
Self consumption(night)		<1W	
Operating temperature range		-30 ~ +60°C	
Cooling concept		fan-cooling	
Max. operation altitude		4000m (Derating above 3000m)	
Relative humidity		0-100%	
Ingress protection		IP66	
Topology structure		Transformerless	
Grid connection standard		NB/T3204, EN 50439-1, IEC 63027, CIG-REI 025-2013, PORTABIA N°515	
Safety/EMC standard		IEC/EN 62109-1/2, EN IEC 61000-4-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12	
Type of DC terminal		MC4 connector	
Type of AC terminal		OT terminal	
<b>Display&amp;Communication</b>			
Display		LED+Bluetooth+APP (Optional LCD)	
Communication Interface		RS485, Optional WiFi, LAN	



# SINGLE PHASE-LV ON-GRID INVERTER

ASN-(10-15)TL-LV

- String current up to 16A
- Wide range of MPPT voltage
- Max. 150% DC/AC ratio
- Max. efficiency 98.5%
- AFCI Optional AFCI function
- Max. IP66 protection



	ASN-10TL-LV	ASN-12TL-LV	ASN-15TL-LV
<b>Input DC</b>			
Max. input power	15kW	18kW	22.5kW
Max. input Voltage	80V	80V	80V
Rated Voltage	360V	360V	360V
Start-Up Voltage	200V	200V	200V
MPPT Voltage Range	200-800V	200-800V	200-800V
Max. Input Current	32A/32A	32A/32A	32A/32A
Max. Short Circuit Current	40A/40A	40A/40A	40A/40A
MPPT Number	2	2	2
Max. Input Strings Number	4	4	4
<b>Output AC</b>			
Rated output power	10kW	12kW	15kW
Max. apparent output power	11kVA	13.2kVA	15kVA
Max. output power	11kW	13.2kW	15kW
Rated grid voltage	127/220V,3~N/PE		
Grid voltage range	103-159V(Phase voltage),178-216V(Line voltage)		
Rated grid frequency	50Hz/60Hz		
Rated output current	26.2A	31.5A	39.4A
Max. output current	28.9A	34.6A	39.4A
Power factor	1 (0.8 Leading - 0.8Lagging)		
THD	<3%		
<b>Efficiency</b>			
Max. efficiency	98.50%		
EU efficiency	98.00%		
MPPT efficiency	99.80%		
<b>Protection</b>			
Integrated DC Switch	Yes		
DC Reversal Protection	Yes		
Anti-Islanding Protection	Yes		
Short Circuit Protection	Yes		
Output Over Current Protection	Yes		
DC Surge Protection	Type II		
AC Surge Protection	Type II		
Insulation Impedance Detection	Yes		
Ground fault monitoring	Yes		
Residual leakage current detection	Yes		
Temperature protection	Yes		
AC Over voltage protection	Yes		
DC Over current protection	Yes		
TV Curve scanning	Yes		
Strings monitoring	Optional		
Anti-backflow	Optional		
Integrated AFCI (DC arc-fault circuit protection)	Optional		
<b>General Data</b>			
Dimensions(W*H*D)	450*462*214mm		
Weight	<25kg		
Self Consumption(night)	<1W		
Operating Temperature Range	-30...+60°C		
Cooling Concept	fan-cooling		
Max. Operation Altitude	4000m (Derating above 3000m)		
Relative Humidity	0-100%		
Ingress Protection	IP66		
Topology Structure	Transformerless		
Grid connection standard	NB/T32004.ENS0549-1,PN-EN 50549-1,PSE, FTRECE, R0497, RD413, RD1699, IEC 217001/2, NTS631, NC RG		
Safety/EMC standard	EN/IEC 61008-1/2/3/4, EN/IEC 61009-1/2, EN/IEC 61009-3-11, EN/IEC 61000-3-12		
Type of DC terminal	MC4 connector		
Type of AC terminal	DT terminal		
<b>Display&amp;Communication</b>			
Display	LED+Bluetooth+APP		
Communication Interface	RS485, Optional WIFI, 4G		

# SINGLE PHASE-LV ON-GRID INVERTER

ASN-(20-25)TL-LV



Maximum string current of 20A



Wide range of MPPT voltage



Max. 150% DC/AC ratio



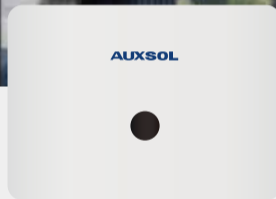
Max. efficiency 98.6%



Optional AFCI function

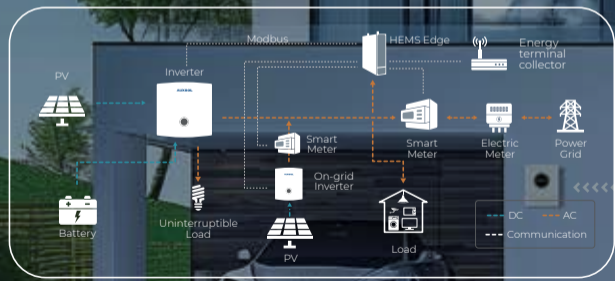


Max. IP66 protection



	ASN-20TL-LV	ASN-25TL-LV
<b>Input DC</b>		
Max. input power	30kW	37.5kW
Max. Input Voltage		800V
Rated Voltage		360V
Start-Up Voltage		180V
MPPT Voltage Range		160-800V
Max. Input Current		40A/40A/20A/20A
Max. Short Circuit Current		50A/50A/25A/25A
MPPT Number		4
Max. Input Strings Number		6
<b>Output AC</b>		
Rated output power	20kW	25kW
Max. apparent output power	22kVA	27.5kVA
Max. output power	22kW	27.5kW
Rated grid voltage		127/230V, 3+N/PE
Grid voltage range		92-173Phase voltage, 160-300V(Line voltage)
Rated grid frequency		50Hz/60Hz
Rated output current	57.5A	65.6A
Max. output current	57.7A	72.2A
Power factor		1 @ 0.8 Leading - 0.8 Lagging
THD		<3%
<b>Efficiency</b>		
Max. efficiency		98.60%
EU efficiency		98.00%
MPPT efficiency		> 99.8%
<b>Protection</b>		
Integrated DC switch		Yes
DC reverse polarity protection		Yes
Anti-islanding protection		Yes
Short circuit protection		Yes
Output over current/protection		Yes
DC Surge protection		Type II
AC Surge protection		Type II
Insulation impedance detection		Yes
Ground fault monitoring		Yes
Residual leakage current detection		Yes
Temperature protection		Yes
AC Over voltage protection		Yes
DC Over current protection		Yes
I-V Curve scanning		Yes
String monitoring		Optional
PSD		Optional
Anti-backflow		Optional
Integrated AFCI (DC arc-fault circuit protection)		Optional
<b>General Data</b>		
Dimensions (W*H*D)		568*443*238mm
Weight		35kg
Self consumption(right)		< 1W
Operating temperature range		-30-60 C
Cooling concept		fan-cooling
Max. operation altitude		4000m
Relative humidity		0-100%
Ingress protection		IP66
Topology structure		Transformerless
Grid connection standard		NB/T 32004 EN 50549-1 IEC 63027 PORTARIA N°515
Safety/EMC standard		IEC/EN 62109-1/2 EN IEC61000-6-1/2/3/4 EN IEC 61000-3-11 EN 61000-3-12
Type of DC terminal		MC4 connector
Type of AC terminal		OT Terminal
<b>Display &amp; Communication</b>		
Display		LED, Optional LCD
Communication Interface		RS485, Optional WIFI, 4G, LAN

# ONE-STOP SOLUTION FOR RESIDENTIAL ENERGY STORAGE









## BATTERY(HV)

ABL-T05H-H02   ABL-T10H-H02   ABL-T15H-H02   ABL-T20H-H02   ABL-T25H-H02

-  passes five-meter drop test, puncture test
-  Optional heating module
-  Intelligent redundant protection
-  Remote diagnosis & update
-  Easy installation and low maintenance
-  Reliable LFP technology with high cycle stability
-  Flexible Expansion

	ABL-T05H-H02	ABL-T10H-H02	ABL-T15H-H02	ABL-T20H-H02	ABL-T25H-H02
<b>Battery</b>					
BDU code	ABL-BDU-H02				
Battery module code	ABL-POS-H02				
Number modules	1	2	3	4	5
Nominal Battery Energy	5.3kWh	10.6kWh	15.9kWh	21.2kWh	26.5kWh
Available Energy	4.5kWh	9kWh	13.5kWh	18kWh	22.5kWh
Nominal voltage	102.4V	204.8V	307.2V	409.6V	512V
Operating voltage range	86.4V ~ 115.2V	172.8~230.4V	259.2~345.6V	345.6~460.8V	432~576V
Nominal power	3kW	6kW	9kW	12kW	15kW
Battery module	32S1P, 5.3kWh				
Cell type	LiFePO4				
Max.charge current	32A				
Max.discharge current	32A				
Peak Power	7, Lasts 10s				
Peak Current	35, Lasts 10s				
SOC Indicator	4*LED (25%, 50%, 75%, 100%)				
State Indicator	2*LED (work, alarm)				
Communication	RS485/CAN				
<b>Protection</b>					
Integrated DC switch	Yes				
Low temperature protection	Yes				
Over voltage protection	Yes				
Over current protection	Yes				
Over temperature protection	Yes				
<b>General Data</b>					
Dimensions (W*H*D)mm	700*660*200	700*950*200	700*1300*200	700*1650*200	700*2000*200
Net Weight (kg)	59kg	103.5kg	148kg	192.5kg	237kg
Operating temperature range	Charge: -20 ~ 50°C, Discharge: -20 ~ 50°C				
Working Altitude (m)	4000				
Calendar Life	>6000 (70%EOL)				
Working Humidity (RH)	5 ~ 95%				
Ingress protection	IP65				
Warranty	10 years				
Alarms	Over charge / Over discharge/Over current / Over temperature/ Short Circuit				





# BATTERY -HV

ABL-T05H    ABL-T08H-PLUS



Support mixing old and new battery packs



Conversion efficiency 98.5%



Support parallel connection of 2 machines



Equipped with lightning protection function



save electricity costs



	ABL-T05H				ABL-T08H-PLUS			
<b>Module</b>								
Module capacity	5kWh				8kWh			
Battery cell specifications	Lithium iron phosphate 314Ah/3.2V				Lithium iron phosphate 314Ah/3.2V			
Cell grouping method	1P6S				1P8S			
Number of packs	1	2	3	4	1	2	3	4
Total capacity	5kWh	10kWh	15kWh	20kWh	8.05kWh	16.12kWh	24.18kWh	32.24kWh
Rated charging and discharging power	2.5kW	5kW	8kW	10kW	4kW	8kW	12kW	16kW
Rated voltage	470V (370-560V)				470V (370-560V)			
<b>General Data</b>								
Weight (kg)	71	129	187	245	80.2	144.7	209.2	273.7
Height • including base (mm)	500	780	1060	1340	525	800	1075	1350
Width • including decorative parts (mm)	738				870			
Depth • including decorative parts (mm)	280				255			
Installation method	Floor installation, wall mounted installation							
working temperature	-20~55℃							
Storage temperature	-25~60℃							
relative humidity	5~95% RH (without condensation)							
Working altitude	≤4000m							
Thermal management	Natural cooling and battery heating function							
Protection level	IP66							
Protection strategy	Overvoltage and overcurrent protection, short circuit protection, and over temperature protection							
Scalability	Parallel connection of two machines							
Mixing old and new battery packs	support							
fire control	Pack level fire protection							
authentication	REACH- RoHS- IEC62620- IEC60730- IEC62619- IEC63056- UN38.3							
<b>Display&amp;Communication</b>								
Display	SOC status, faults, and operational status							
Communication Interface	RS485/CAN							





# BATTERY

## -LV

ABL01-05L01

ABL01-10L01

ABL01-16L01



Cycle life of over 6000 times



the ability to expand multiple sets of capacity



Safe and convenient operation



save electricity costs

	ABL01-05L01	ABL01-10L01	ABL01-16L01
<b>Nominal Parameters</b>			
Module capacity	5kWh	10kWh	15kWh
Battery cell specifications	Lithium iron phosphate 100Ah/3.2V	Lithium iron phosphate 150Ah/3.2V	Lithium iron phosphate 314Ah/3.2V
Cell grouping method	1P4S		
Energy Storage Capacity	5kWh	10kWh	16kWh
Rated charging and discharging power	5kW	10kW	8kW
Rated voltage	51.2V		
<b>Electrical Parameter</b>			
Operating Voltage	46.4V-58.2V		
Limited Charge Voltage	58.2V		
Maximum Discharge Current	100A (60s)	100A(60s)	200A(60s)
Continuous Discharge Current	100A	100A	150A
Maximum Charge Current	100A	100A	200A(60s)
Continuous Charging Current	100A	100A	150A
<b>General Data</b>			
Core Material	LiFePO4		
Cell Spec.	100Ah	205Ah	314Ah
Dimension W*H*D mm	420*660*160	420*660*345	420*895*250
Machine Weight	55kg	93kg	129kg
Life cycles (80% DOD, 25°C)	>4000 Times, 25°C/0.5C, 60%EOL		
Storage Time	3 month		
Working Temperature	Charge: 0°C-55°C, Discharge: -20°C-55°C		
Storage Temperature	-40°C-55°C		
Network interface	RS485/CAN/RS232		
IP Grade	IP44		
Protection strategy	Overvoltage and overcurrent protection, short circuit protection, and over temperature protection		
Using an altitude	<4000M		
Warranty standard	5 Years CE,UN38.3		
<b>Display&amp;Communication</b>			
Display	SOC status, fault, and operational status		
Communication Interface	RS485/CAN		

## C&I On-Grid Solution

The AUXSOL has a complete line of industrial and commercial string inverters, covering 50-110kW. Differentiated solutions can be designed according to customer needs to provide you with the best industrial and commercial system solutions. AUX high-power photovoltaic inverters are widely used in distributed power station projects such as industrial and commercial rooftops, mountainous and hilly areas, and complementary agricultural, photovoltaic, and fishery photovoltaic systems.

- The high-power three-phase grid connected inverter achieves a conversion efficiency of up to 98.6% through advanced topology and innovative control technology.
- Supports 1.5 times DC super matching, allows a maximum input current of 20A per string, perfectly adapts to 182/210 high-efficiency components, and improves power generation and user revenue.
- At the same time, the three-phase grid connected inverter has the functions of intelligent string detection, I/V curve scanning, and 5S/time cloud data refresh frequency to accurately locate faults.

The AUXSOL Energy Industrial and Commercial Photovoltaic System Solution provides better energy solutions for industrial and commercial households with reliable quality, stable efficiency, and user-friendly characteristics.





# THREE PHASE ON-GRID INVERTER

ASN-50TL-G2 ASN-60TL-G2 ASN-70TL-G2 ASN-75TL-G2 ASN-80TL-G2

- Wide MPPT voltage range
- Max. efficiency 98.6%
- Optional PID restoration function
- AFCI Optional AFCI function
- Optional anti-backflow
- Max. IP66 protection

	ASN-50TL-G2	ASN-60TL-G2	ASN-70TL-G2	ASN-75TL-G2	ASN-80TL-G2
<b>Input DC</b>					
Max. input power	750W	900W	1050W	112.5kW	120kW
Max. input voltage			1100V		
Rated voltage			630V		
Start-up voltage			180V		
MPPT voltage range			150-1000V		
Max. input current	40A*4			48A*4	
Max. short circuit current	50A*4			60A*4	
MPPT number	4			4	
Max. input string number	8			12	
<b>Output AC</b>					
Rated output power	50kW	60kW	70kW	75kW	80kW
Max. apparent output power	58kVA	68kVA	77kVA	82.5kVA	88kVA
Max. output power	55kW	66kW	77kW	82.5kW	88kW
Rated grid voltage			230V/380V/230V/400V/3/N/PE		
Grid voltage range			143-303V(Phase voltage),280-320V(Line voltage)		
Rated grid frequency			50Hz/60Hz		
Rated grid output current	22.2A	86.6A	101A	108.3A	118.5A
Max. output current	29.6A	95.3A	111A	119.1A	127A
Power factor			>0.99 @ 0.8 leading - 0.8 lagging		
THDi			< 3%		
<b>Efficiency</b>					
Max. efficiency			98.07%		
EU efficiency			98.37%		
MPPT efficiency			> 99.8%		
<b>Protection</b>					
Integrated DC switch			Yes		
DC reverse polarity protection			Yes		
Anti-islanding protection			Yes		
Short circuit protection			Yes		
Output over current protection			Yes		
DC Surge protection			Type II		
AC Surge protection			Type II		
Insulation impedance detection			Yes		
Ground fault monitoring			Yes		
Residual leakage current detection			Yes		
Temperature protection			Yes		
AC Over voltage protection			Yes		
DC Over current protection			Yes		
Strings monitoring			Optional		
24-hour load monitoring			Optional		
Integrated AFCI (DC arc fault circuit protection)			Optional		
Integrated PID recovery			Optional		
Anti-backflow			Optional		
<b>General Data</b>					
Dimensions (W*H*D)			735*530*280mm		
Weight			60kg		
Self consumption/night			< 1W/0 (with 24h load monitoring)		
Operating temperature range			-30 ~ +60°C		
Cooling concept			fan-cooling		
Max. operation altitude			4000m (Derating above 3000m)		
Relative humidity			0-100%		
Ingress protection			IP56		
Topology structure			Transformerless		
Grid connection standard			NB/T33004,EN 50549-1,IEC 63027,PORTABIA N°115,CGC/GF 035-2013		
Safety/EMC standard			IEC/EN 62109-1,2,EN 60904-1,2/3,4,EN IEC 61000-3-11,EN 61000-3-12		
Type of DC terminal			MCA connector		
Type of AC terminal			OT terminal		
<b>Display &amp; Communication</b>					
Display			LED+Bluetooth+APP (Optional LCD)		
Communication interface			RS485,Optional WiFi,4G,LAN		



# THREE PHASE ON-GRID INVERTER



ASN-70TL

ASN-75TL

ASN-80TL

ASN-90TL

ASN-100TL

ASN-110TL



Wide MPPT  
voltage range



Max. efficiency  
98.6%



Optional PID  
restoration function



Optional AFCI  
function



Optional  
anti-backflow

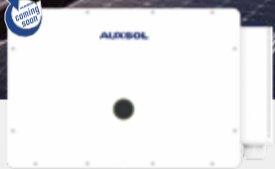


Max. IP66  
protection

	ASN-70TL	ASN-75TL	ASN-80TL	ASN-90TL	ASN-100TL	ASN-110TL
<b>Input DC</b>						
Max input power	105kW	112.5kW	120kW	135kW	150kW	165kW
Max input voltage	1100V					
Rated voltage	600V					
Start-up voltage	195V					
MPPT voltage range	180-1020V					
Max input current	3120A	4120A				10750A
Max short circuit current	3120A	4120A				10750A
MPPT number	5	6				10
Max. input string number	10	12				20
MPPT Range full load	460-850V					
<b>Output AC</b>						
Rated output power	70kW	75kW	80kW	90kW	100kW	110kW
Max apparent output power	77kVA	82.5kVA	88kVA	99kVA	110kVA	121kVA
Max output power	77kW	82.5kW	88kW	99kW	110kW	121kW
Rated grid voltage	220V/380V, 230V/400V, 3/N/PE					
Rated grid frequency	50Hz/60Hz					
Rated grid output current	101A	108.3A	115.5A	130A	144.5A	158.6A
Max output current	111.1A	119.1A	127A	143A	158.6A	174.6A
Power factor	>0.99 (0.8 leading ~ 0.8 lagging)					
THDi	<3%					
<b>Efficiency</b>						
Max efficiency	98.50%	98.60%				98.60%
EU efficiency	98.30%	98.30%				98.30%
NOVA efficiency	98%	98.10%				98.10%
<b>Protection</b>						
Integrated DC switch	Yes					
DC reverse polarity protection	Yes					
Anti-islanding protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
DC surge protection	Type II					
AC surge protection	Type II Optional Type I					
Insulation impedance detection	Yes					
Ground fault monitoring	Yes					
Residual leakage current detection	Yes					
Temperature protection	Yes					
Storage monitoring	Yes					
AC Over voltage protection	Yes					
DC Over current protection	Yes					
Integrated AFCI (DC arc fault protection)	Optional					
UV Curve scanning	Optional					
Anti-backflow	Optional					
24-hour load monitoring	Optional					
<b>General Data</b>						
Dimensions (W*H*D)	1007*668*307mm					
Weight	85kg				88kg	
Self consumption (night)	<2W					
Operating temperature range	-30 ~ +40°C					
Cooling concept	fan-cooling					
Max operation altitude	4000m (Derating above 3000m)					
Relative humidity	0-100%					
IP66 protection	IP66					
Topology structure	Transformerless					
Grid connection standard	NB/T 3204-EN 5049-1 IEC 61737 IEC 62116 NRS 097 VDE-AR-N 4110/4105					
Safety/EMC standard	IEC/EN 62109-1/2 EN IEC 61000-6-2/EN IEC 61000-3-11 EN 61000-3-12					
Type of DC terminal	MC4-connector					
Type of AC terminal	DT terminal					
<b>Display &amp; Communication</b>						
Display	LED+Bluetooth+APP					
Communication Interface	RS485, Optional WPLAG					



coming soon



# THREE PHASE ON-GRID INVERTER

- ASN-90TL-PLUS
- ASN-100TL-PLUS
- ASN-110TL-PLUS

- Wide MPPT voltage range
- Max. efficiency 98.65%
- Optional PID restoration function
- AFCI Optional AFCI function
- Optional anti-backflow
- Max. IP66 protection

	ASN-90TL-PLUS	ASN-100TL-PLUS	ASN-110TL-PLUS
<b>Input DC</b>			
Max. input power	1350W	1500W	1650W
Max. input voltage		1100V	
Rated voltage		620V	
Start-up voltage		195V	
MPPT voltage range		180-1020V	
Max. input current		8740A	
Max. short circuit current		8750A	
MPPT number		8	
Max. input strings number		16	
<b>Output AC</b>			
Rated output power	90kW	100kW	110kW
Max. apparent output power	99kVA	110kVA	121kVA
Max. output power	99kW	110kW	121kW
Rated grid voltage		220V/230V/230V/400V/3/N/PE	
Rated grid frequency		50Hz/60Hz	
Rated grid output current	130A	144.5A	158.8A
Max. output current	143A	158.8A	174.6A
Power factor		>0.99 (0.8 leading ~ 0.8 lagging)	
THD		<3%	
<b>Efficiency</b>			
Max. efficiency		98.65%	
EU Efficiency		98.35%	
MPPT efficiency		99.85%	
<b>Protection</b>			
Integrated DC switch		Yes	
DC reverse polarity protection		Yes	
Anti-islanding protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
DC Surge protection		Type II	
AC Surge protection		Type I, Optional Type I	
Insulation impedance detection		Yes	
Ground fault monitoring		Yes	
Residual leakage current detection		Yes	
Temperature protection		Yes	
Strings monitoring		Yes	
AC Over voltage protection		Yes	
DC Over current protection		Yes	
Integrated AFCI (DC arc fault circuit protection)		Optional	
Integrated PID recovery		Optional	
Anti-backflow		Optional	
<b>General Data</b>			
Dimensions (W*H*D)		1007*468*341mm	
Weight		87kg	
Self consumption (night)		<2W	
Operating temperature range		-30 ~ +40°C	
Cooling concept		fan-cooling	
Max. operation altitude		4000m (Derating above 3000m)	
Relative humidity		0 ~ 100%	
Ingress protection		IP66	
Topology structure		Transformerless	
Grid connection standard		IEC 61727/IEC62116, on-netto 515	
Safety EMC standard		EN IEC 61000-6-2/EN IEC 61000-6-3/EN IEC 61000-3-11/EN IEC 61000-3-12	
Type of DC terminal		MCA connector	
Type of AC terminal		DT terminal	
<b>Display &amp; Communication</b>			
Display		LED + Bluetooth + APP	
Communication interface		RS485, Optional WiFi, 4G	



## THREE PHASE ON-GRID INVERTER

ASN-300TL-HV    ASN-320TL-HV    ASN-330TL-HV



MPPT optimization algorithm to ensure maximum input power



Maximum conversion efficiency 99.08%



Maximum conversion efficiency 99.08%



High precision IV curve scanning

	ASN-300TL-HV	ASN-320TL-HV	ASN-330TL-HV
<b>Input DC</b>			
Max. Input Voltage	1500V		
MPPT Voltage Range	500-1500V		
Max. Input Current	65A	75A	75A
Max. Short Circuit Current	105A	125A	125A
Max. Input Strings Number	30		
MPPT Number	6		
<b>Output AC</b>			
Rated output power	300kW	320kW	330kW
Max. apparent output power	330kVA	352kVA	363kVA
Max. output power	330kW	352kW	363kW
Rated grid voltage	/		
Grid voltage range	800(3W+PE)		
Grid voltage range	720-880VAC		
Rated output current	217A	231A	238A
Max. output current	238A	254A	262A
Power factor	0.8 Leading ~ 0.8Lagging		
THD	<3%(Rated power)		
<b>Efficiency</b>			
Max. efficiency	99.08%		
EU efficiency	98.75%		
<b>Protection</b>			
Integrated DC Switch	Yes		
Anti-Islanding Protection	Yes		
Output Over Current Protection	Yes		
Input reverse protection	Yes		
String fault detection	Yes		
DC Surge Protection	Yes		
AC Surge Protection	Type II		
Insulation Impedance Detection	Type II		
Residual leakage current detection	Yes		
<b>General Data</b>			
Dimensions(W*H*D)	1128*808*351mm		
Weight	110kg±10%		
Operating Temperature Range	-40°C ~60°C		
Cooling Concept	fan-cooling		
Relative Humidity	0-100%		
Ingress Protection	IP66		
Topology Structure	Transformerless		
Type of DC terminal	MCA connector		
<b>Display&amp;Communication</b>			
Display	LED		
Communication Interface	RS485,Bluetooth,PLC,Optional		





## THREE PHASE ON-GRID INVERTER

ASN-30TL-LV-G2

ASN-40TL-LV-G2



Wide MPPT  
voltage range



Max. efficiency  
98.6%



Optional PID  
restoration function



Optional AFCI  
function



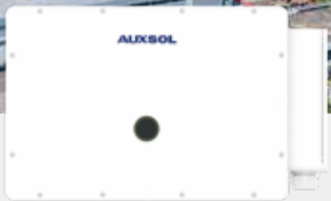
Optional  
anti-backflow



Max. IP66  
protection



	ASN-30TL-LV-G2	ASN-40TL-LV-G2
<b>Input DC</b>		
Max input power	45kW	60kW
Max. Input Voltage		800V
Rated Voltage		300V
Start-Up Voltage		180V
MPPT Voltage Range		150-800V
Max. Input Current		48/48/48/48A
Max. Short Circuit Current		60/60/60/60A
MPPT Number		4
Max. Input Strings Number		12
<b>Output AC</b>		
Rated output power	30kW	40kW
Max apparent output power	33kVA	44kVA
Max output power	33kW	44kW
Rated grid voltage		127/220V/370V/PE
Grid voltage range		92-173V(Phase voltage) 140-300V(Line voltage)
Rated grid frequency		50Hz/60Hz
Rated output current	78.7A	105A
Max output current	86.6A	115.5A
Power factor		>0.99(0.8 Leading ~ 0.8Lagging)
THDi		<3%
<b>Efficiency</b>		
Max efficiency		98.60%
EU efficiency		98.00%
MPPT efficiency		>99.8%
<b>Protection</b>		
Integrated DC switch		Yes
DC reverse polarity protection		Yes
Anti-islanding protection		Yes
Short circuit protection		Yes
Output over current protection		Yes
DC Surge protection		Type II
AC Surge protection		Type II
Insulation impedance detection		Yes
Ground fault monitoring		Yes
Residual leakage current detection		Yes
Temperature protection		Yes
AC Over voltage protection		Yes
DC Over current protection		Yes
IV Curve tracking		Yes
Storage monitoring		Optional
PID		Optional
Anti-backflow		Optional
Integrated AFCI (DC arc-fault circuit protection)		Optional
<b>General Data</b>		
Dimensions (W*H*D)		735*530*285mm
Weight		60kg
Self consumption (night)		<1W (without 24h load monitoring)
Operating temperature range		-30~60°C
Cooling concept		fan-cooling
Max. operation altitude		4000m (Derating above 3000m)
Relative humidity		0~100%
Ingress protection		IP66
Topology structure		Transformerless
Grid connection standard		NB/T32004, EN 5049-1, IEC 63027, PORTARIA N°1515
Safety/EMC standard		IEC/EN 62109-1/2, EN IEC61000-6-1/2/3/4, EN IEC 61000-3-11, EN 61000-3-12
Type of DC terminal		MC-4
Type of AC terminal		OT Terminal
<b>Display&amp;Communication</b>		
Display		LED, Optional LCD
Communication Interface		RS485, Optional WiFi, 4G, LAN



# THREE PHASE ON-GRID INVERTER

- ASN-35TL-LV
- ASN-40TL-LV
- ASN-45TL-LV
- ASN-50TL-LV
- ASN-60TL-LV
- ASN-70TL-LV
- ASN-75TL-LV

- Wide MPPT voltage range
- Max. efficiency 98.6%
- Optional PID restoration function
- Optional anti-backflow
- Max. IP66 protection

	ASN-35TL-LV	ASN-40TL-LV	ASN-45TL-LV	ASN-50TL-LV	ASN-60TL-LV	ASN-70TL-LV	ASN-75TL-LV
<b>Input DC</b>							
Max. input power	52.5kW	60kW	67.5kW	75kW	90kW	105kW	112.5kW
Max. Input Voltage	800V			800V			
Rated Voltage	420V			420V			
Start-Up Voltage	195V			195V			
MPPT Voltage Range	180-800V			180-800V			
Max. Input Current	32A*4		32A*5		36A*8		
Max. Short Circuit Current	40A*4		40A*5		50A*8		
MPPT Number	4		5		8		
Max. Input Strings Number	8		10		16		
<b>Output AC</b>							
Rated output power	35kW	40kW	45kW	50kW	60kW	70kW	75kW
Max. apparent output power	38.5kVA	44kVA	49.5kVA	55kVA	66kVA	78kVA	75kVA
Max. output power	38.5kW	44kW	49.5kW	55kW	66kW	78kVA	75kVA
Rated grid voltage	127/220V, 3/N/PE						
Rated grid frequency	50Hz/60Hz						
Rated output current	91.9A	105A	118.1A	131.2A	157.5A	183.7A	196.8A
Max. output current	101A	115.5A	130A	144.3A	157.5A	183.7A	196.8A
Power factor	>0.99⑧ Leading, 0.8lagging						
THDi	<3%						
<b>Efficiency</b>							
Max. efficiency	98.5%		98.6%		98.5%		
EU efficiency	98.3%		98.3%		98.3%		
<b>Protection</b>							
Integrated DC switch				Yes			
DC reverse-polarity protection				Yes			
Anti-islanding protection				Yes			
Short circuit protection				Yes			
Output over current protection				Yes			
DC Surge protection				Type II			
AC Surge protection				Type II, Optional Type I			
Insulation impedance detection				Yes			
Ground fault monitoring				Yes			
Residual leakage current detection				Yes			
Temperature protection				Yes			
Strings monitoring				Yes			
AC Over voltage protection				Yes			
DC Over current protection				Yes			
LV Curve scanning				Yes			
Integrated AFCI				Yes			
(DC arc-fault circuit protection)				Optional			
Anti-backflow				Optional			
<b>General Data</b>							
Dimensions (W*H*D)	100*668*57mm		82kg		100*668*57mm		
Weight	~75kg				96kg		
Self consumption(night)	<2W			<2W			
Operating temperature range	-30~+40°C			-30~+40°C			
Cooling concept	Fan-cooling			Fan-cooling			
Max. operation altitude	4000m (Derating above 3000m)			4000m (Derating above 3000m)			
Relative humidity	0-100%			0-100%			
Ingress protection	IP66			IP66			
Topology structure	Transformerless			Transformerless			
Grid connection standard				NB/TS2004, EN50549-1, PN-EN 50549-1, ISE /PT/REE, RD47, RD413, RD1699, LINE 217001/2, NTS631, NC RIG			
Safety/EMC standard				EN/IEC 62109-1/-2; EN/IEC 61000-6-2/4, EN/IEC 61000-3-11, EN/IEC 61000-3-12			
Type of DC terminal				M24 connector			
Type of AC terminal				OT terminal			
<b>Display&amp;Communication</b>							
Display				LED+Bluetooth+APP			
Communication Interface				RS485, Optional WiFi, PLC			





## ELECTRIC ENERGY STORAGE

EESC Series

EESB-L



Modular prefabrication,  
no need for on-site  
installation



Multiple fuse  
protection



High protection  
level



Low operating power  
consumption



Module	EESC Series
system capacity	2.5MW/5MWh
Cell type	LFP 3.2V/314Ah
to configure	1P52S*8*12
PACK quantity	96
Rated voltage	1331.2V
Voltage range	1164.8-1497.6V
Protection level	IP55
Working temperature range	-30- 60°C
relative humidity	0-95% (no condensation)
Maximum operating altitude	< 2000m
Fire protection system	Water firefighting/perfluorohexane/aerosol (optional)
Auxiliary power supply	AC 400V 50Hz
weight	About 38 tons
Dimensions (length * width * height)	4058*2438*2896mm

Module	EESB-L
System specifications	209kW/418kWh
Cell type	LFP 3.2V/314Ah
to configure	1P416S
DC side voltage range	1164.8-1497.6V
Rated voltage on the AC side	690V
Rated frequency on the communication side	50Hz
power factor	0.99
Current distortion rate	<3%
Maximum system efficiency	>89%@0.5P
Charge/discharge rate	<0.5P
Protection level	IP55
Cooling method	Liquid cooling
Working temperature range	-30- 60°C
Fire protection system	Water firefighting/perfluorohexane/aerosol (optional)
Maximum operating altitude	< 2000m
weight	About 3.8 tons
Dimensions (width * depth * height)	1400*1300*2350mm



## THREE-PHASE RAIL-MOUNTED METER ( ZERO-EXPORT METER )

- N34G12 rail meter adopts special metering chip, modular design, with multi-function, high accuracy, small size, fast response, high stability and other characteristics. The product can be used in three-phase with four-wire, single-phase with two-wire and other power grids, and can measure quantity of active power, voltage, current, active power, reactive power, frequency, power factor, split-phase power and other parameters. Instantaneous volume refresh rate up to 20ms, communication response time is less than 30ms.
- N34G12 rail meter has 1 channel active electric pulse output; 1 channel RS485 communication port (Modbus RTU); The default RS485 communication rate is 9600bps (and can be customized to a higher rate); support active optical pulse output signal. And the product can be adapted to different inverter models.
- N34G12 rail meter has good electromagnetic compatibility, And has obtained the following certifications: international GB/T17215, GB/T15284, GB/T17883 and power industry standards DL/T614, IEC62053-21.

N34G12



CE certification



Max current 80A direct access



Support single-phase with 2 wire, three-phase with 4 wire



Communication response time <30ms



Bidirectional metering



Active power pulse output



Multi-metering parameter measurement, Power refresh time 20ms



RS485 Modbus

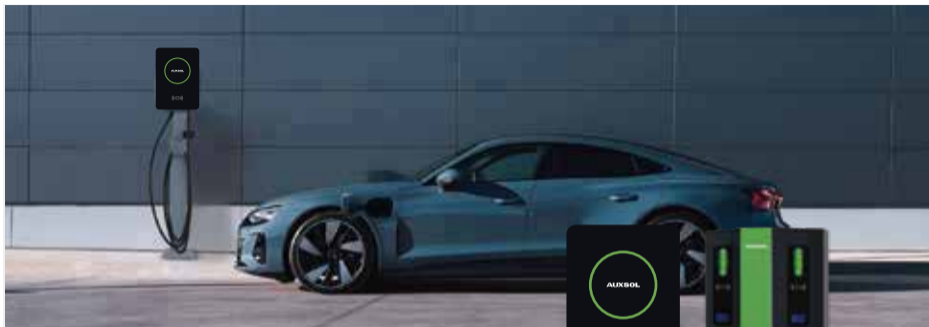
Access method	Accuracy level	Voltage	Current	Frequency	Impulse constant
Direct	Level 1/B	3*230/400V	0.25-5(80)A	45Hz-65Hz	1000

### KEY PERFORMANCE INDICATORS

Power refreshing time	20ms	Communication Response Time	<30ms
Start-up current	0.4%Ib	Temperature	Operating temperature:-25℃ - 70℃ Storage and transportation temperature:-40℃ - 70℃
Communication interface	RS485	Humidity	Working Humidity:90% Storage and Transportation Humidity:95
Signal	Active	IP Rating	IP5X
AC withstand voltage	4kV	Voltage Line Power Consumption	<1W 5VA
Pulse withstand voltage	4kV	Current Line Power Consumption	<1VA
Electrostatic discharge	8kV contact discharge 15kV air discharge	Surge	4kV
Electromagnetic interference	IEC61000-4-3	Group Pulse	4kV
Conducted radiation	EN55022	Weight	=360g
Appearance size	100*72*66mm	Mounting Dimension	35mm rail mounted

### RS485 communication

Bus Type	RS485 bus half-duplex	Distance	<1000m
Protocol	Modbus RTU(default)	Communication rate	9600bps(default) 19200bps ( rate can be customized )
Bus Load	<64pcs	Data Bit	8
Calibration Bits	EVEN\ODD\NONE(default)	Stop Bit	1



## AC CHARGER

AUXSOL AC CHARGER is a practical, intelligent charging system for electric vehicles and plug-in hybrids, which connects to the MYAUXSOL (application) charging management platform using Wi-Fi or Bluetooth. The Charger comes with the addition of integrated DC leakage protection as standard.

AUXSOL CHARGER is compact, and features the most advanced technology to provide maximum charging performance.

AUXSOL CHARGER easily adapts to any installation, in private garages or shared parking.



Versatile



Communications:  
4G, Wi-Fi, Ethernet,  
RS485



Operating temperature  
-30°C ~ 50°C



Multiple protection

	Basic version	Smart version	Public operating funds
	Product Information		
Product model	SACG11 A322Q11, SACG11 A163Q11, SACG11 A323Q11	SACG11 A322Q12, SACG11 A163Q12, SACG11 A323Q12	SACG11 A322Q13, SACG11 A163Q13, SACG11 A323Q13
Reference standards	EN IEC 61851-1		
Structural design	Cold rolled sheet fully spray coated, with reserved grounding screw, using transparent Toughened glass plate, silk screen operation instructions and card swiping area		
Installation method	Wall mounting, Pole mounting		
Hanging gun mode	Type 2 cable		Type 2 cable / Type 2 socket / Type 2 socket with shutter
Entry method	Cable entry and output: bottom		
working temperature	-30°C ~ 50°C		
authentication	CE		
Emergency stop button	Yes		
Output power selection	7kW/11kW/22kW		
Charging interface	1 x Type 2 plug (Cable C)		
Measurement method	Onboard metering, 2% accuracy		MID/PTB certified, 1% accuracy
standby power	Standby Power Consumption: < 10W		
Protection function	Short circuit protection, overcurrent protection, over temperature protection, under voltage protection, grounding protection, leakage protection		
Leakage protection	Onboard integrated 6mA DC+30mA AC		
Is there a screen	None		Digital 4.3-inch LCD screen
Screen display content	/		Display charging current, voltage, power, charging time, and remaining battery level
Status display	Indicator Lights: LED strip displays charging station status		
Start up method	Offline RFID card, plug and charge		Offline RFID card, APP, plug and charge, management platform
Stop method	Swipe card to stop charging or automatically stop when fully charged		
Card swiping standards	ISO/IEC 14443 A		ISO/IEC 14443 A, ISO/IEC 15693
Communication method	RS485		4G, Wi-Fi, Ethernet, RS485
CPU	F4 48pin		F4 100pin
Product Upgrade	Local upgrade (upgrade recording tool)		Remote automatic upgrade+local upgrade
Bluetooth	None		5.0
Platform Communication Protocol	None		OCPP 1.6J
Product dimensions	350*250*80mm H*W*D, Column:1300*150*80mm H*W*D		
Differences in measurement requirements among European countries	/		The European market requires MID certification; The German market requires PTB certification; The French market needs to support TIC measurement; The Dutch market needs to support P1 measurement



## R290 MONOBLOCK AIR TO WATER HEAT PUMP

The heat pump uses a small amount of electric energy as the driving force and refrigerant as the carrier to carry the heat in the air to meet the needs of users for cooling/heating/hot water.



-7°C Capacity no Damping



High Efficiency



Low Noise Operation



Combination of 8 units

### Technical Information

SINGLE-PHASE	MARKET MODEL (SINGLE-PHASE)			ACHP-H04/4R 2HA-M	ACHP-H06/4R 2HA-M	ACHP-H08/4R 2HA-M	ACHP-H10/4R 2HA-M	ACHP-H12/4R 2HA-M	ACHP-H14/4R 2HA-M	ACHP-H16/4R 2HA-M	ACHP-H04/4R 2HA-M (NE)	ACHP-H06/4R 2HA-M (NE)	ACHP-H08/4R 2HA-M (NE)	ACHP-H10/4R 2HA-M (NE)	ACHP-H12/4R 2HA-M (NE)	ACHP-H14/4R 2HA-M (NE)	ACHP-H16/4R 2HA-M (NE)
	Power supply	Monobloc Unit	V/Ph/H	220-240/1/50													
Heating (A:7/6°C W:30/35°C)	Capacity	kW	4.5	6.35	8.4	10	12	14	15.1	4.5	6.35	8.4	10	12	14	15.1	
	COP		5.15	4.95	5	4.8	4.9	4.8	4.7	5.15	4.95	5	4.8	4.9	4.8	4.7	
Heating (A:7/6°C W:47/55°C)	Capacity	kW	4.6	6.40	7.8	9.5	12	14	15.1	4.6	6.40	7.8	9.5	12	14	15.1	
	COP		3.2	3.15	3.3	3.25	3.25	3.2	3.15	3.2	3.15	3.3	3.25	3.25	3.2	3.15	
Cooling (A:35°C W:23/18°C)	Capacity	kW	4.5	6.5	8.3	10	12	14	16	4.5	6.5	8.3	10	12	14	16	
	EER		5.5	5.1	5.15	4.75	4.5	3.6	3.9	5.5	5.1	5.15	4.75	4.5	3.6	3.9	
Cooling (A:35°C W:12/7°C)	Capacity	kW	4.7	6.8	7.5	8.9	11.5	12.7	14	4.7	6.8	7.5	8.9	11.5	12.7	14	
	EER		3.65	3.1	3.45	3.25	3.05	2.9	2.75	3.65	3.1	3.45	3.25	3.05	2.9	2.75	
Seasonal space heating energy efficiency class <sup>7</sup>	LWT at 35°C		A+++														
	LWT at 55°C		A+++														
Refrigerant(R290)	Factory charge	kg	0.55		0.85		1.35			0.55		0.85		1.35			
Sound power	Monobloc Unit	dB	56			57		58	59	60	56		57		58	59	60
Wiring	Power wiring	mm <sup>2</sup>	3*4mm <sup>2</sup> +3*4mm <sup>2</sup>				3*6mm <sup>2</sup> +3*4mm <sup>2</sup>			3*4mm <sup>2</sup>				3*6mm <sup>2</sup>			

THREE-PHASE	MARKET MODEL			ACHP-H08/5R 2HA-M	ACHP-H10/5R 2HA-M	ACHP-H12/5R 2HA-M	ACHP-H14/5R 2HA-M	ACHP-H16/5R 2HA-M	ACHP-H12/5R 2HA-M (NE)	ACHP-H14/5R 2HA-M (NE)	ACHP-H16/5R 2HA-M (NE)
	Power supply	Monobloc Unit	V/Ph/H	380-415/3/50							
Heating (A:7/6°C W:30/35°C)	Capacity	kW	8.4	10	12	14	15.1	12	14	15.1	
	COP		5	4.8	4.9	4.8	4.7	4.9	4.8	4.7	
Heating (A:7/6°C W:47/55°C)	Capacity	kW	7.8	9.5	12	14	15.1	12	14	15.1	
	COP		3.3	3.25	3.25	3.2	3.15	3.25	3.2	3.15	
Cooling (A:35°C W:23/18°C)	Capacity	kW	8.3	10	12	14	16	12	14	16	
	EER		5.15	4.75	4.5	3.6	3.9	4.5	3.6	3.9	
Cooling (A:35°C W:12/7°C)	Capacity	kW	7.5	8.9	11.5	12.7	14	11.5	12.7	14	
	EER		3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75	
Seasonal space heating energy efficiency class <sup>7</sup>	LWT at 35°C		A+++								
	LWT at 55°C		A+++								
Refrigerant(R290)	Factory charge	kg	0.85			1.35			1.35		
Sound power	Monobloc Unit	dB	57			58	59	60	58	59	60
Wiring	Power wiring	mm <sup>2</sup>	5*4mm <sup>2</sup> +5*4mm <sup>2</sup>			5*6mm <sup>2</sup> +5*4mm <sup>2</sup>			5*6mm <sup>2</sup>		

# R290 ALL IN ONE

The heat pump uses a small amount of electric energy as the driving force and refrigerant as the carrier to carry the heat in the air to meet the needs of users for cooling/heating/hot water.



316 stainless steel



45mm insulation layer



Low Noise Operation



Build in the water flow sensor



Build in 3-way valve

## R290 All In One

Model name		8kW	10kW	12kW	14kW	16kW	12kW	14kW	16kW			
Model		AC08H16 R290A19	AC10H10 R290A19	AC12H10 R290A19	AC14H16 R290A19	AC16H16 R290A19	AC08H10 R290A19	AC14H16 R290A19	AC16H16 R290A19			
Power supply	Monobloc Unit	220-240/1/50			220-240/1/50			380-415/3/50				
	V/Ph/H											
Heating2	Capacity	8.1	9.8	11.6	13.6	15.1	11.6	13.6	15.1			
	Rated input	1.62	2.04	2.37	2.83	3.21	2.37	2.83	3.21			
	COP	5	4.8	4.9	4.8	4.7	4.9	4.8	4.7			
Heating3	Capacity	7.6	9.4	11.5	14	14.8	11.5	14	14.8			
	Rated input	2.30	2.89	3.54	4.38	4.70	3.54	4.38	4.70			
	COP	3.3	3.25	3.25	3.2	3.15	3.25	3.2	3.15			
Cooling4	Capacity	8.1	9.8	11.6	13.6	15.8	11.6	13.6	15.8			
	Rated input	1.57	2.06	2.58	3.78	4.05	2.58	3.78	4.05			
	EER	5.15	4.75	4.5	3.6	3.9	4.5	3.6	3.9			
Cooling5	Capacity	7.4	8.8	11.1	12.5	14	11.1	12.5	14			
	Rated input	2.14	2.71	3.6	4.31	5.09	3.6	4.31	5.09			
	EER	3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75			
Seasonal space heating energy efficiency class <sup>7</sup>	LWT at 35°C	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++			
	LWT at 55°C	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++			
	LWT at 55°C	5.1	5.1	4.71	4.71	4.75	4.71	4.71	4.75			
SCOP6	LWT at 35°C	3.85	3.85	3.825	3.825	3.825	3.825	3.825	3.825			
	LWT at 55°C	A+	A+	A+	A+	A+	A+	A+	A+			
DHW energy efficiency	Water heating energy efficiency class	A+	A+	A+	A+	A+	A+	A+	A+			
	COPDHW	2.95	2.95	2.88	2.88	2.88	2.88	2.88	2.88			
	Declared load profile	L			L			L				
Water pump	Pump head	m	9	9	9	9	9	9	9			
	Max Flow	m <sup>3</sup> /h	4.5	4.5	4.5	4.5	4.5	4.5	4.5			
	Adapter diameter		DN25	DN25	DN25	DN25	DN25	DN25	DN25			
	Factory charge	kg	0.85	0.85	1.35	1.35	1.35	1.35	1.35			
sound pressure level	Outdoor Unit	dB(A)	44	44	45	46	47	45	46			
	Indoor Unit		31		31		31		31			
Sound power level	Outdoor Unit	dB	57		58	59	60	58	59			
	Indoor Unit		43		43		43		43			
Packed dimensions (W×H×D)	Outdoor Unit	mm	1355*545*1210			1355*545*1210			1355*545*1210			
	Indoor Unit	mm	700*682*1835			700*682*1835			700*682*1835			
Body dimensions (W×D×H)	Outdoor Unit	mm	1280*420*1040			1280*420*1040			1280*420*1040			
	Indoor Unit	mm	600*600*1720			600*600*1720			600*600*1720			
Operating temperature range	Cooling	°C	-5 - 43			-5 - 43			-5 - 43			
	Heating	°C	-25 - 35			-25 - 35			-25 - 35			
	Domestic hot water	°C	-25 - 43			-25 - 43			-25 - 43			
	Cooling	°C	5 - 25			5 - 25			5 - 25			
Setting water temperature range	Heating	°C	25 - 80			25 - 80			25 - 80			
	Domestic hot water	°C	30 - 75			30 - 75			30 - 75			
	Piping connections	inch	G1" BSP			G1" BSP			G1" BSP			
	DHW Piping connections	inch	G3/4" BSP			G3/4" BSP			G3/4" BSP			
Water circuit	Safety valve set pressure	MPa	0.3			0.3			0.3			
	Flow switch	m <sup>3</sup> /h	0.6			0.6			0.6			
	Expansion	Volume L	8			8			8			
	Capacity of the back-up heater	kW	3			3			3			
	Water side	Type		Plate type			Plate type			Plate type		
		Outdoor Unit	Unit	68/33/16			68/33/16			68/33/16		
Stuffing Quantity	Outdoor Unit		51/51/24			51/51/24			51/51/24			
	Indoor Unit											

# Remote Monitoring



## Intelligent AI

Power plant, inverter, string ranking comparison function, improve operation and maintenance efficiency

IV scan function, one-click to know PV modules status Intelligent alarm propelling, more efficient for troubleshooting Intelligent local devices comparison



## Convenient O&M

One-click creating plant & One-click adding device

Built-in repair channel in APP, convenient for end customers to report failure.

Multi-level maintenance, supporting level management

Multidimensional real-time data, supporting remote configuration

Large screen display, intuitive & clear



## Safe & Reliable

Micro service framework, supporting tens of million devices

Safe operating information, supporting investigation and retrospection

Safe link, multiple data backup



## Fast implementation

Five steps to quickly establish the power station (guide setup, wiring diagnosis, information filling)



## Concept

- Comprehensive support for all AUXSOL products, including on-grid inverters, hybrid inverters, battery pack, datalogger, meter etc.
- Customer focused service concept
- Factory trained and certified service engineers ensure good service experience for global customers

## Warranty Service

Based on AUXSOL products, provide suitable and cost-effective solution.

Provide corresponding extended warranty according to different regions requirement.

## Training Support



Product Features Operation & Maintenance Troubleshooting Guide



On-line training for Customers and Service Partners



On-site training for O&M staff of customers