

2024 Product Catalogue Inverters and Energy Storage











## AUXSOI









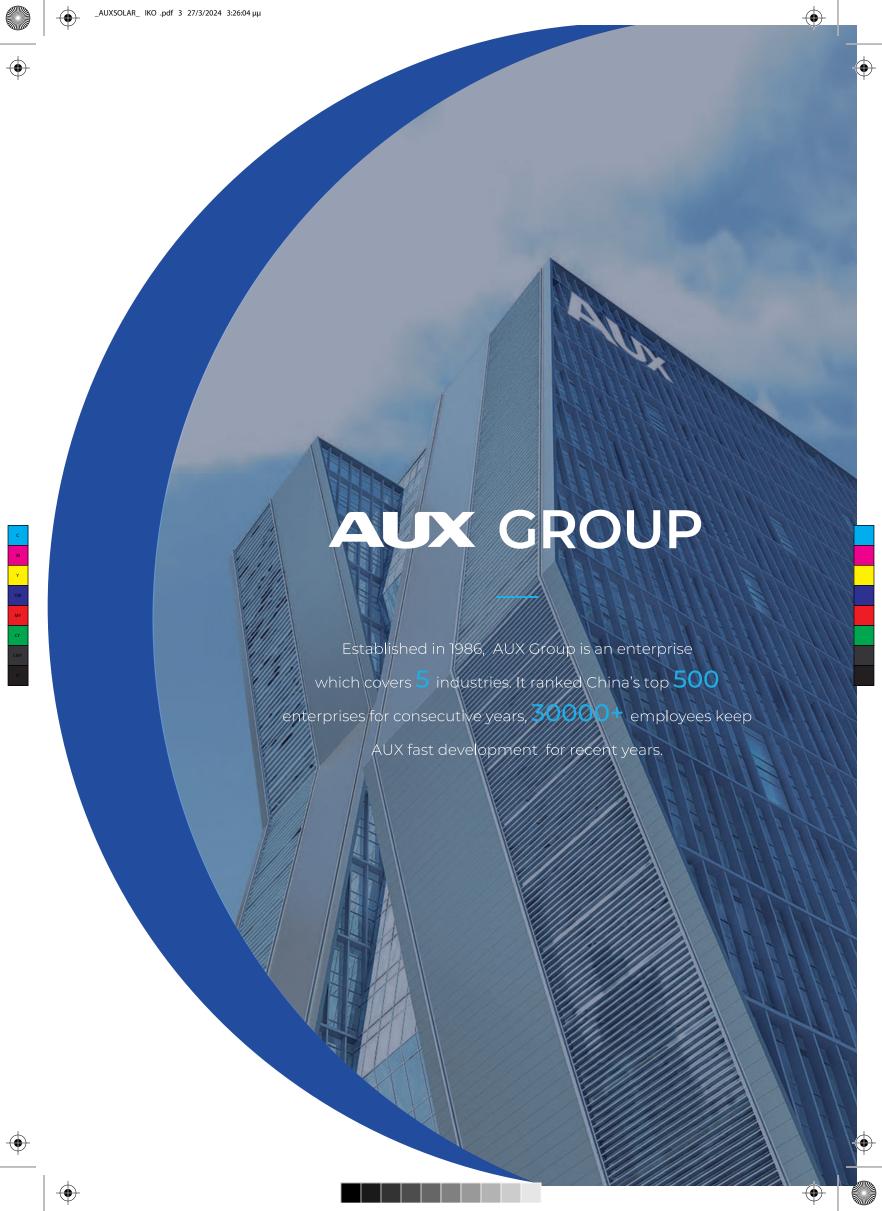


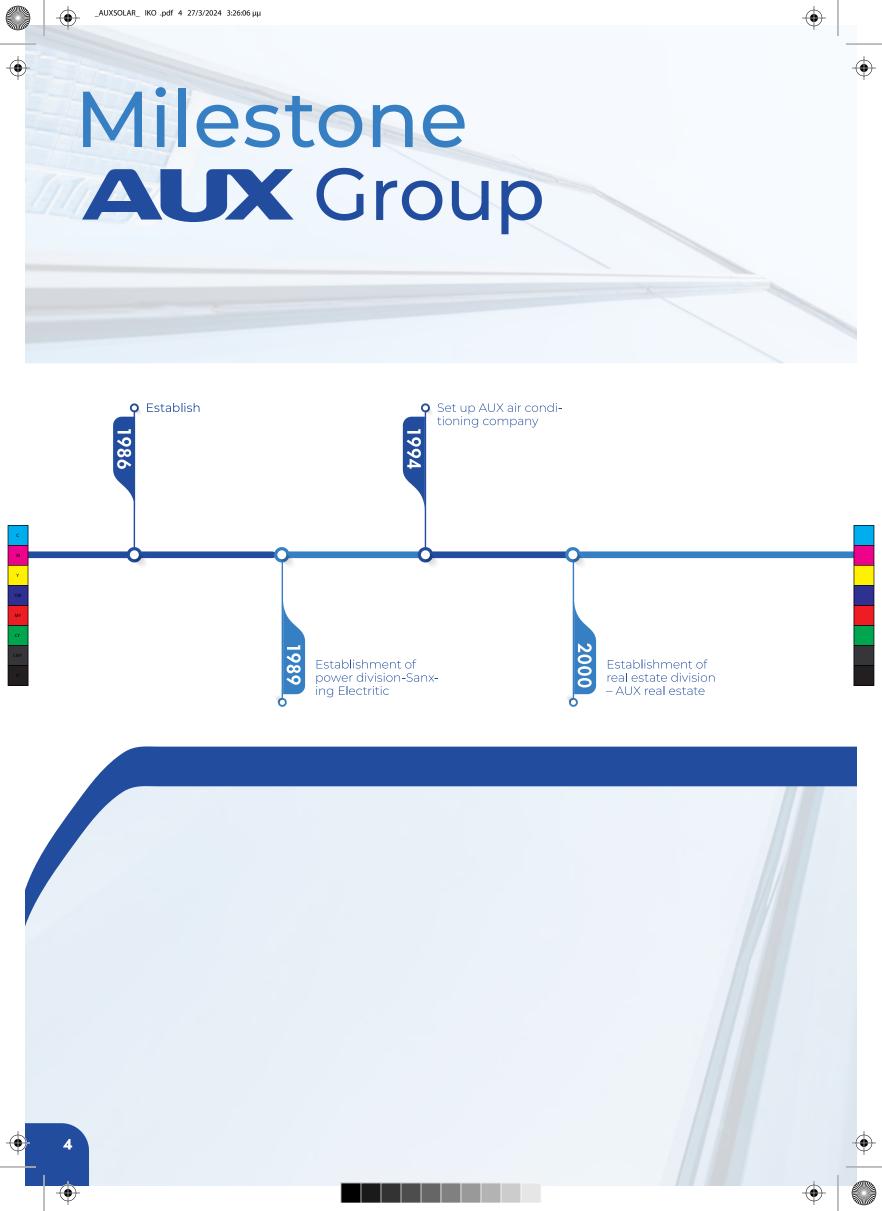


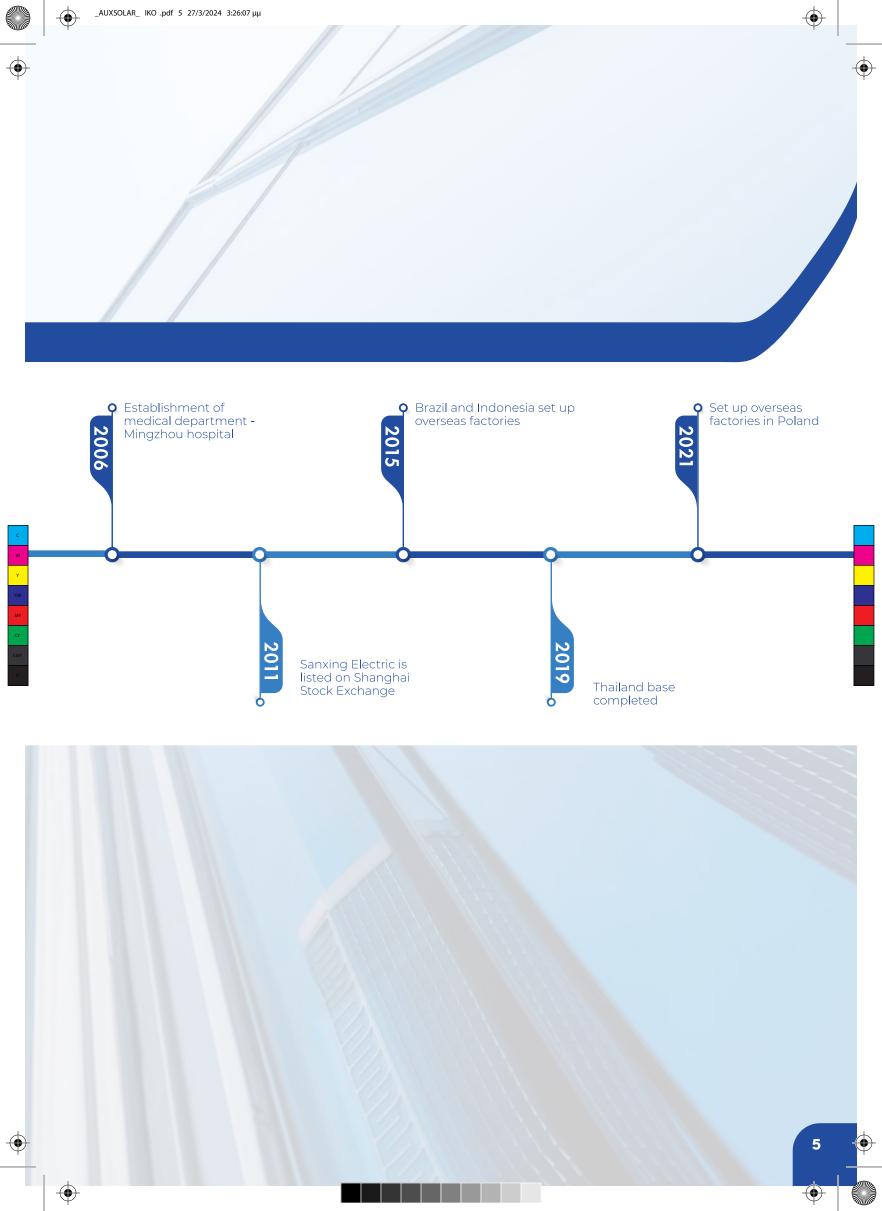
- Ningbo AUX Solar Technology Co., Ltd. ( "AUX Solar" ) is wholly-owned subsidiary of Ningbo AUX Smart Technology CO., LTD. With registered capital of USD 44 million, AUX Solar specializes in on-grid inverters, hybrid inverters, battery packs and energy storage systems.
- AUX Group was founded in 1986, 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.

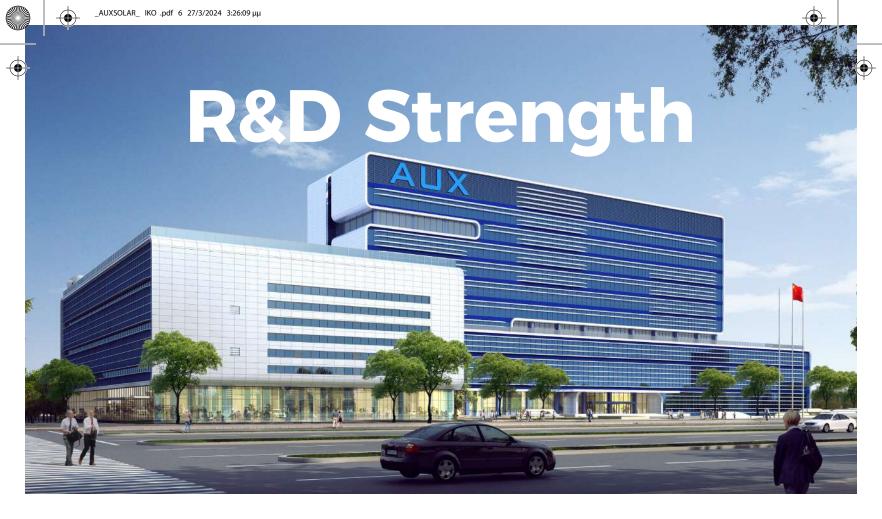












AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-oriented, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadship in solar industry.

6

18067

3

4573

R&D center

Patents

**CNAS lab** 

**R&D** engineers

500

100 million

120

6%

PCB engineers

Average annual investment

Leading electronic control staff Annual R&D investment accounting for 6% of the sales











**1** IEC61683/IEC60068

2 IEC62109-1-2

**3** EN50549-1

4 IEC61727/IEC62116

Special Environment and Efficiency Safety

European grid-connected standard Grid-connected & Isolated Island

**5** IEC61000-6/3-X

CE Certification

6 NC-RFG(PN-EN50549)

**7** 5K-IEC61000-6-1/2/3/4

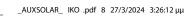
8 5K-EN50549-1

Poland grid-connected standard European grid-connected standard







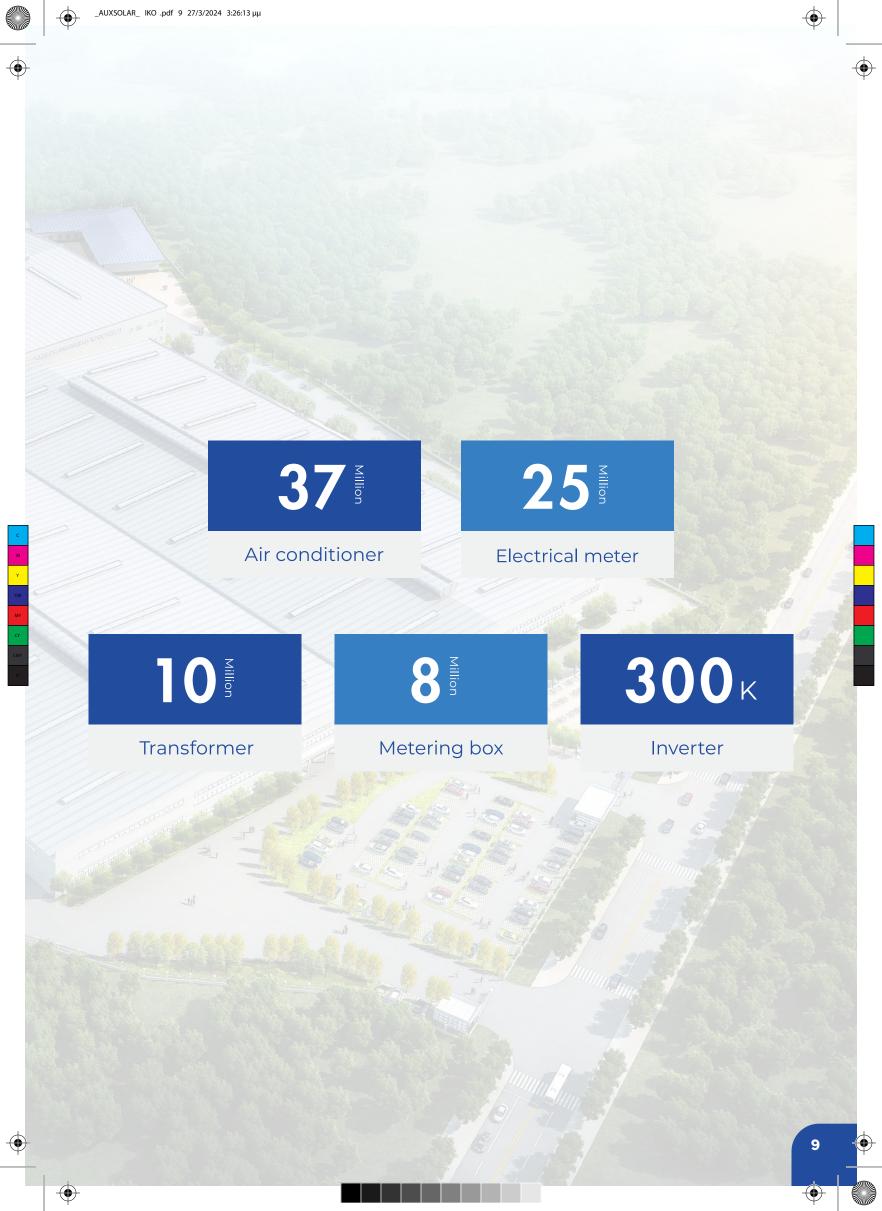




# 11 manufacturing base

4 overseas: Brazil Indonesia Thailand Poland



































Compatible with large power PV module access



Dual MPPT inputs



IP66 protection class



Easy to install



High power density











Max. Input Voltage   September   Septem		ASN-3.6SL	ASN-4SL	ASN-4.6SL	ASN-5SL	ASN-6SL	ASN-7SL	ASN-8SL
Search Voltage   Sea	INPUT DC							
Search Voltage   Sea	Max. Input Voltage				600V			
Start-Up Nothage   805-509'   807-559'								
MBEPT VAILage Range								
Max. Input Current 13A/13A 16A/16A 27A/16A 35A/20A 35			80~5	500V			80~550V	
Max. Input Srings Number  12  13  14  15  16  16  16  17  17  17  18  18  18  18  18  18  18	Max. Input Current		13A/	′13A		16A/16A	27A/1	6A
Max. Input Strings Number   2	Max. Short Circuit Current		16A/	′16A		20A/20A	35A/2	.0A
Marked Dutpur Power	MPPT Number		2	2				
Rated Output Power 3.6kW 4kW 4kW 5kW 6kW 7kW 8kW Max. Apparent Output Power 1.96kW 4.4kW 5.06kW 5.5kW 6.6kW 7.kW 8kW Max. Apparent Output Power 3.96kW 4.4kW 5.06kW 5.5kW 6.6kW 7.7kW 8kW 8kW 8km 6.04pt 7km 7km 8kW 8km 6.04pt 7km 8k	Max. Input Strings Number		2	2			3	
Rated Output Power 3.6kW 4kW 4kW 5kW 6kW 7kW 8kW Max. Apparent Output Power 1.96kW 4.4kW 5.06kW 5.5kW 6.6kW 7.kW 8kW Max. Apparent Output Power 3.96kW 4.4kW 5.06kW 5.5kW 6.6kW 7.7kW 8kW 8kW 8km 6.04pt 7km 7km 8kW 8km 6.04pt 7km 8k	OUTPUT AC							
Max. Apparent Output Power         3.96k/A         4.4k/A         5.06k/A         5.5k/A         6.6k/A         7.7k/A         8.3k/A           Max. Output Power         3.96k/A         4.4k/A         5.06k/A         5.5k/A         6.6k/A         7.7k/A         8.3k/A           Rated Grid Vottage         1/N/PE_220V/230V         1/N/PE_220V/230V         1/N/PE_220V/230V         50Hz/60Hz         50Hz/60Hz         50Hz/60Hz         50Hz/60Hz         50Hz/60Hz         30AAA         36.4A         36.4		3.6kW	4kW	4.6kW	5kW	6kW	7kW	8kW
Max Output Power 3,96KW 4,4W 5,06KW 5,5KW 6,66KW 7,7KW 8KW Rated Girl Voltage 1,7KPF, 220V1230V 150V12 150KP 120V1220V1230V 150KP 1		3.96kVA		5.06kVA	5.5kVA	6.6kVA	7.7kVA	8.3kVA
Rated Grid Voltage								
Rated Grid Frequency 15.7A 18.2A 20.9A 22.7A 27.3A 31.8A 36.4A Max. Output Current 16.0A 19.4A 12.3A 20.9A 22.7A 27.3A 31.8A 36.4A Rated Grid Output Current 16.0A 19.4A 22.3A 24.3A 29.1A 34.A 36.4A Rower Factor 1 (0.8 Leading − 0.8 Lagslmy − 0.8 Lagslmy − 1 (0.8 Leading − 0.8 Lagslmy − 1 (0.8 Leading − 0.8 Lagslmy − 0.8 Lagslmy − 1 (0.8 Leading − 0.8 Lagslmy − 0.8 Lagslmy − 1 (0.8 Leading − 0.8 Lagslmy − 0.8 Lagslmy − 0.8 Lagslmy − 1 (0.8 Lagslmy − 0.8 Lagslmy −				20V/230V		1/N/P	E,220V/230V/240V	
Rated Grid Output Current						.,.,,		
Max. Output Cucrent 16.0A 19.4A 22.3A 24.3A 29.1A 34A 36.4A  Power Factor 1 (0.8 Leading ~ 0.8 Leaging)   **TITLE**  **T		15.7A			22.7A	27.3A		36.4A
Province   Factor   1 (0.8 Leading ~ 0.8 Leagling > 0.8 Lego   1								
### Page 12   Pa	Power Factor	. 5.57 (					3	30.171
### PATCH   P				1 (0.0 L	_	1991119)		
Max. Efficiency 97.9% 97.8% 97.8%  EU Efficiency 97.0% 97.0%  PROTECTION  Tregrated DC Switch 90 1					\J /0			
EU Efficiency         97.0%         97.3%           PROTECTION           The tregrated DC Switch         Yes           DC Rever-Polarity Protection         Yes           Anti-Islanding Protection         Yes           Short Circuit Protection         Yes           DC Surge Protection         Yes           AC Surge Protection         Yes           AC Surge Protection         Yes           Sessioual Leakage Current Detection         Yes           Ground fault monitoring         Yes           AC Over voltage protection         Yes           DC Over current protection         Yes           DC Over current protection         Jopanical Serial Seria				07.7%			07.90%	
PROTECTION								
DE Rever Polarity Protection	•	_	_	97.0%	_		97.5%	_
DC Rever-Polarity Protection         Yes           Anti-Islanding Protection         Yes           Sobrat Circuit Protection         Yes           Output Over Current Protection         Yes           DC Surge Protection         Yes           AC Surge Protection         Yes           Residual Leakage Current Detection         Yes           Ground fault monitoring         Yes           AC Over voltage protection         Yes           DC Over current protection         Yes           Integrated AFCI (DC arc-fault circuit protection)         /         Optional           GENERAL DATA         Optional         Optional           Dimensions(W*H*D)         355*430*152mm         400*383*177mm           Weight         10.8Kg         15.6kg           Self Consumption(night)         <0.3W         ≤0.3W           Operating Temperature Range         -25°C+60°C         -25+60°C           Cooling Concept         Natural Cooling         Natural Cooling           Max. Operation Altitude         3000m (>3000m Derating)         400m (Derating above 3000m)           Relative Humidity         0~100%         0~100%         0~100%           Ingress Protection         IP65         IP66           Topology Structure					V			
Anti-Islanding Protection Yes Short Circuit Protection Yes Output Over Current Protection Yes DC Surge Protection Yes AC Surge Protection Yes Insulation Impedance Detection Yes Residual Leakage Current Detection Yes Residual Leakage Current Detection Yes Ground fault monitoring Yes AC Over voltage protection Yes AC Over uronet protection Yes DC Over current protection Y	-							
Short Circuit Protection								
Output Over Current Protection  C Surge Protection  AC Surge Protection  AC Surge Protection  AC Surge Protection  AC Surge Protection  Yes  Insulation Impedance Detection  Yes  Residual Leakage Current Detection  Ground fault monitoring  Yes  AC Over voltage protection  Yes  AC Over voltage protection  Yes  AC Over voltage protection  Yes  AC Over unterprotection  Anough A Optional  AC Optional  AC Connection  Transformerless  Transfor	-							
DC Surge Protection         Yes           AC Surge Protection         Yes           Insulation Impedance Detection         Yes           Residual Leakage Current Detection         Yes           Ground fault monitoring         Yes           AC Over voltage protection         Yes           DC Over current protection         Yes           DC Over current protection         /         Optional           GENERAL DATA         Optional           GENERAL DATA         Uses         15.6kg           Dimensions(W*H*D)         355*430*152mm         400*383*177mm           Weight         10.8Kg         15.6kg           Self Consumption(night)         <0.3W								
AC Surge Protection Yes  Insulation Impedance Detection Yes  Residual Leakage Current Detection Yes  Ground fault monitoring Yes  AC Over voltage protection Yes  DC Over current protection Yes  DC Over current protection Yes  DC Over current protection Yes  DIMEGRAL DATA  SERIAL DATA  Weight 10.8Kg 15.6kg  Self Consumption(night) <0.3W ≤0.3W  Operating Temperature Range 2.5°C+60°C 2.5+60 °C  Cooling Concept Natural Cooling Natural Cooling  Max. Operation Altitude 3000m (>3000m Derating) 4000m (Derating above 3000m)  Relative Humidity 0~100% 0.100%  Ingress Protection IP65 IP66  Topology Structure Transformerless Transformerless  Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO 1050549PHEN 50549PS PT PREED BOOK 7, DOWN 3-1, D								
Residual Leakage Current Detection								
Residual Leakage Current Detection Yes Ground fault monitoring Yes AC Over voltage protection Yes DC Over current protection Yes Integrated AFCI (DC arc-fault circuit protection) / Optional  GENERAL DATA Dimensions (W"H"D) 355*430*152mm 400*383*177mm Weight 10.8Kg 15.6kg Self Consumption (night) <0.3W ≤0.3W Operating Temperature Range 25°C+60°C 25+60°C Cooling Concept Natural Cooling Natural Cooling Max. Operation Altitude 3000m (>3000m (>3000m Derating) 4000m (Derating above 3000m) Relative Humidity 0-100% 0-100% Ingress Protection IP65 IP66 Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN 50549-1,EN FIPEER,ENGAR, AND SILE, EN FIPEER,ENGAR, AND SILE, EN FIPEER,ENGAR, AND SILE, EN FIPEER,ENGAR, AND SILE, EN FIPEER, ENGAR, AND SILE, EN FIRE ENGAR, AND SILE, EN FIRE ENGAR, AND SILE, EN FIRE ENGAR, AND SILE, EN FIPEER, ENGAR, AND SILE, EN FIRE ENGAR, AND SILE, EN FIPEER, ENGAR, AND SILE, EN FIRE EN								
Ground fault monitoring  AC Over voltage protection  Yes  DC Over current protection  Yes  Integrated AFCI (DC arc-fault circuit protection)  / Optional  GENERAL DATA  Dimensions(W*H*D)  355*430*152mm  400*383*177mm  Weight  10.8Kg  15.6kg  Self Consumption(night)  <0.3W  ✓0.3W  ✓0.3W  Operating Temperature Range  -25°C+60°C  Cooling Concept  Natural Cooling  Max. Operation Altitude  3000m (>3000m Derating)  Max. Operation Altitude  3000m (>3000m Derating)  Max. Operation Altitude  3000m (>10%  Ingress Protection  IP65  IP66  Topology Structure  Transformerless  Grid connection stadard  EN 50549,EN62116,EN 61727,INMETRO  DISPLAYSECOMMUNICATION  DISPLAYSECOMMUNICATION  DISPlays  LED+Bluetooth+APP  LED+Bluetooth+APP								
AC Over voltage protection  CO Over current protection  CO Over current protection  (CO Care-fault circuit protection)  (CEENERAL DATA  Dimensions(W*H*D)  355*430*152mm  400*383*177mm  400*383*177mm  Weight  10.8Kg  15.6kg  Self Consumption(night)  <0.3W  So.3W  Operating Temperature Range  -25°C+60°C  Cooling Concept  Natural Cooling  Max. Operation Altitude  3000m (>3000m (>3000m Derating)  Max. Operation Altitude  3000m (>3000m Derating)  4000m (Derating above 3000m)  Relative Humidity  0~100%  10peology Structure  1 peof  Transformerless  Transformerless  Grid connection stadard  EN 50549,EN62116,EN 61727,INMETRO  ENSORA-I, PNE PTPIREE,DOAT, FIDE STORE,								
DC Over current protection  Integrated AFCI (DC arc-fault circuit protection)  Integrated AFCI (DC arc-fault according and a 400 and 400 a					Yes			
Integrated AFCI (DC arc-fault circuit protection) / Optional  GENERAL DATA  Dimensions (W*H*D) 355*430*152mm 400*383*177mm  Weight 10.8Kg 15.6kg Self Consumption (night) <0.3W ≤0.3W Operating Temperature Range -25°C+60°C -25+60°C Cooling Concept Natural Cooling Natural Cooling Natural Cooling Oncept Natural Cooling Oncept Natural Cooling Nax. Operation Altitude 3000m (>3000m Derating) 4000m (Derating above 3000m)  Max. Operation Altitude 3000m (>3000m Derating) 4000m (Derating above 3000m)  Relative Humidity 0-100% 0-100%  Ingress Protection IP65 IP66  Topology Structure Transformerless Transformerless  Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO ENSOS49-1, PSE. PTPREE.RD647,ED413,ED1699, UNE 217001/2, INTS 631,NC RIG  Safety/EMC standard IEC 62109-1/2, IEC 61000-6-1/2/3/4,IEC 61000-3-11/1,12,EN 62920 IEC.FN 62109-1/2,IEC.FN 61000-4-1/2/3/4,ENIEC 61000-3-11, ENIEC 61000-5  Type of DC terminal MC4 connector  Type of AC terminal Quick connection plug  DISPLAY&COMMUNICATION  Display LED+Bluetooth+APP	- '							
(DC arc-fault circuit protection)  GENERAL DATA  Dimensions(W*H*D)  355*430*152mm  400*383*177mm  Weight  10.8Kg  15.6kg  Self Consumption(night)  Co.3W  Coparating Temperature Range  -25°C+60°C  Cooling Concept  Natural Cooling  Max. Operation Altitude  3000m (>3000m Derating)  Max. Operation Altitude  3000m (>3000m Derating)  Max. Operation Altitude  3000m (>3000m Derating)  May Deration Altitude  10.65  10.66  Topology Structure  Transformerless  Transformerless  Grid connection stadard  EN 50549,EN62116,EN 61727,INMETRO  Safety/EMC standard  EC 62109-1/2, IEC 61000-6-1/2/3/4,IEC 61000-3-11/12,EN 62920  DISPLAY&COMMUNICATION  Display  LCD  LED+Bluetooth+APP	· ·				Yes			
GENERAL DATA       Dimensions(W*H*D)     355*430*152mm     400*383*177mm       Weight     10.8Kg     15.6kg       Self Consumption(night)     <0.3W			/			C	ptional	
Weight 10.8Kg 15.6kg  Self Consumption(night) < 0.3W	GENERAL DATA							
Self Consumption(night)	Dimensions(W*H*D)		355*430*	152mm		40	0*383*177mm	
Operating Temperature Range -25°C+60°C Cooling Concept Natural Cooling Max. Operation Altitude 3000m (>3000m Derating) 4000m (Derating above 3000m) Relative Humidity 0~100% 0-100% Ingress Protection IP65 IP66 Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PSE, PTPIREE,RD647,RD413,RD1699, UNE 217001/2, NTS631,NC RIG Type of DC terminal Type of AC terminal DISPLAY&COMMUNICATION Display  LCD LED+Bluetooth+APP	Weight		10.8	Kg			15.6kg	
Cooling Concept  Natural Cooling  Max. Operation Altitude  3000m (>3000m Derating)  4000m (Derating above 3000m)  Relative Humidity  0~100%  0-100%  Ingress Protection  IP65  IP66  Topology Structure  Transformerless  Grid connection stadard  EN 50549,EN62116,EN 61727,INMETRO  Safety/EMC standard  IEC 62109-1/2, IEC 61000-6-1//2/3/4,IEC 61000-3-11/12,EN 62920  Type of DC terminal  MC4 connection plug  DISPLAY&COMMUNICATION  Display  LCD  LED+Bluetooth+APP	Self Consumption(night)		<0.3	3W			≤0.3W	
Max. Operation Altitude 3000m (>3000m Derating) 4000m (Derating above 3000m)  Relative Humidity 0~100% 0-100%  Ingress Protection IP65 IP66  Topology Structure Transformerless Transformerless  Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PSE, PTPIREE,RD647,RD413,RD1699, UNE 217001/2, NT5631,NC RIG  Safety/EMC standard IEC 62109-1/2, IEC 61000-6-1//2/3/4,IEC 61000-3-11/12,EN 62920 IEC/EN 62109-1/2,IEC/EN 61000-3-11, EN/IEC 61000-3-  Type of DC terminal MC4 connector  Type of AC terminal Quick connection plug  DISPLAY&COMMUNICATION  Display LCD LED+Bluetooth+APP	Operating Temperature Range		-25°C	+60°C			-25+60°C	
Relative Humidity 0~100% 0-100% Ingress Protection IP65 IP66 Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PN-EN	Cooling Concept		Natural (	Cooling		N	atural Cooling	
Relative Humidity 0~100% 0-100% Ingress Protection IP65 IP66 Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PN-EN	Max. Operation Altitude		3000m (>300	0m Derating)		4000m (D	erating above 300	0m)
Ingress Protection IP65 IP66 Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PN-EN 5	Relative Humidity		0~10	00%				
Topology Structure Transformerless Transformerless Grid connection stadard EN 50549,EN62116,EN 61727,INMETRO EN50549-1, PN-EN 50549-1, PSE, PTPIREE,RD647,RD413,RD1699, UNE 217001/2, NTS631,NC RfG  Safety/EMC standard IEC 62109-1/2, IEC 61000-6-1//2/3/4,IEC 61000-3-11/12,EN 62920 IEC/EN 62109-1/2,IEC/EN 61000-6-1/2/3/4,EN/IEC 61000-3-11, EN/IEC 61000-3- Type of DC terminal Type of AC terminal Quick connection plug  DISPLAY&COMMUNICATION  LCD LED+Bluetooth+APP	Ingress Protection		IP6	55			IP66	
Grid connection stadard  EN 50549,EN62116,EN 61727,INMETRO  EN50549-1, PN-EN 50549-1, PN-EN 5054	Topology Structure		Transfor	rmerless		Tr	ansformerless	
Safety/EMC standard  IEC 62109-1/2, IEC 61000-6-1//2/3/4,IEC 61000-3-11/12,EN 62920  Type of DC terminal  MC4 connector  Type of AC terminal  Quick connection plug  DISPLAY&COMMUNICATION  LCD  LED+Bluetooth+APP	Grid connection stadard	EN 50	549,EN62116,EN	61727,INMETRO				RD413,RD1699,
Type of DC terminal MC4 connector  Type of AC terminal Quick connection plug  DISPLAY&COMMUNICATION  Display LCD LED+Bluetooth+APP	Safety/EMC standard				2920			3-11, EN/IEC 61000-3-
Type of AC terminal Quick connection plug  DISPLAY&COMMUNICATION  Display LCD LED+Bluetooth+APP								
DISPLAY&COMMUNICATION  LCD  LED+Bluetooth+APP								
- 11-7	DISPLAY&COMMUNICATION			Zui				
Communication Interface RS485, Optional: WIFI, 4G	Display		LCD			LE	D+Bluetooth+APP	
	Communication Interface			RS48	5, Optional: WI	FI, 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.











Compatible with large power PV module access





Dual MPPT inputs



IP66 protection class



Easy to install



High power density













	ASN-5TL	ASN-6TL	ASN-8TL	ASN-10TL	ASN-12TL	ASN-15TL	ASN-17TL	ASN-20TL	ASN-23TL	ASN-25TL
Input DC										
Max.input voltage					110	)0V				
Rated voltage	620V									
Start-up voltage		200V								
MPPT voltage range					200-1	000V				
Max.input current			16A/16A			32A/16A		32A/	32A	
Max.short circuit current			20A/20A			40A/20A		40A/	40A	
MPPT number					2	2				
Max. input strings number		2				3		4		
Output AC										
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				
Rated grid frequency					50Hz/6	50Hz				
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)				
THDi					<3	3%				
Effciency										
Max. Effciency		98.	.3%					98.5%		
EU Effciency		97.	.7%			97.8%		98%		
Protection										
Integrated DC switch					Υe	2S				
DC rever-polarity protection					Ye					
Anti-islanding protection					Υe					
Short circuit protection					Ye					
Output over currentprotection					Υe					
DC Surge protection					Тур					
AC Surge protection					Тур					
Insulation impedance detection					Ye					
Ground fault monitoring					Ye	es				
Residual leakage current detection					Ye	es es				
Temperature protection		Yes								
Strings monitoring	Optional									
Antibackflow	Optional									
Integrated AFCI (DC arc-fault circuit protection)	Optional									
I/V Curve scanning					Opti	onal				
General Data	-	-	-	-	Орш	Oriai	-	-	-	-
Dimensions (W*H*D)					455*462*	*214mm				
					25					
Weight  Solf consumption(night)					<1	-				
Self consumption(night)  Operating temperature range					-30+					
Cooling concept					fan-co					
Max. operation altitude				400		g above 3000n	2)			
Relative humidity				400		-	11)			
Ingress protection	0~100% IP66									
Topology structure						rmerless				
Grid connection stadard		NR/T22004 F	N50540 1 DN F	N 50540 1 DC			D1600 LINE	217001/2 NT	C631 NC DfC	
Safety/EMC standard			N50549-1,PN-E							
Type of DC terminal		EIV	I/IEC 62109-1/2	۷, EIN/IEC ۱۱	MC4 coi		700-3-11, EN/	1EC 01000-3-	14	
Type of AC terminal					OT ter					
					OT ter	ıııııal				
Display&Communication					LED : Please	ooth LADD				
Display  Communication Interface				r	LED+Bluet					
Communication Interface				ı	13403, UPTIO	nal: WIFI, 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 recentversion at the moment of signing the contract.









### **KEY FEATURES**



Max. MPPT current 32A



Optional AFCI function



Wide MPPT voltage range



Home appliance level EMC control



5/6/10 individual MPPT design











In and DC	ASN-70TL	ASN-75TL	ASN-80TL	ASN-90TL	ASN-100TL	ASN-110			
Input DC			44001						
Max.input voltage			1100V						
Rated voltage			620V						
Start-up voltage			195V						
MPPT voltage range			180-1000V						
Max.input current	5*3		6*32		10*32				
Max.short circuit current	5*5	0A	6*50	Α	10*50	0A			
MPPT number		5	6		10				
Max. input strings number	1	0	12		20				
Output AC									
Rated output power	70kW	75kW	80kW	90kW	100kW	110k\			
Max.apparent output power	77kVA	82.5kVA	88kVA	99kVA	110kVA	121k\			
Rated grid voltage			220V/380V,230V/40	00V,3/N/PE					
Rated grid frequency			50Hz/60Hz	Z					
Rated output current	101A	108.3A	115.5A	130A	144.5A	158.8			
Max.output current	111.1A	119.1A	127A	143A	158.8A	174.6			
Power factor			>0.99 (0.8 leading						
THDi			<3%						
Effciency			~5%						
Max. Effciency	98.5%	ń		02	.6%				
	90.3%		98.3%	90.	J /U				
EU Effciency			90.5%						
Protection									
Integrated DC switch			Yes						
DC rever-polarity protection			Yes						
Anti-islanding protection	Yes								
Short circuit protection			Yes						
Output over currentprotection		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						
Antibackflow			Optional						
Integrated AFCI									
(DC arc-fault circuit protection)			Optional						
I/V Curve scanning			Optional						
General Data			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Dimensions (W*H*D)			1007*668*357	mm					
Weight	75kg		1007 000"3371	mil	80kg				
Self consumption(night)	7.5kg		<2W		Jung				
· •									
Operating temperature range			-30+60 °C						
Cooling concept			Fan-cooling						
Max. operation altitude		40	000m (Derating abo	ve 3000m)					
Relative humidity			0~100%						
Ingress protection			IP66						
Topology structure			Transformerle						
Grid connection stadard	NB/T32004,EN50549-1, PN	I-EN 50549-1,F	PSE ,PTPiREE,RD647,I	RD413,RD1699,l	JNE 217001/2,N7	TS631, NC			
Safety/EMC standard	EN/IEC 6210	9-1/-2, EN/IEC	61000-6-2/4;EN/IEC	61000-3-11, EN	I/IEC 61000-3-12				
Type of DC terminal			MC4 connect	or					
Type of AC terminal			OT termina						
Display&Communication									
Display			LED+Bluetooth-	-APP					

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### **KEY FEATURES**



Support multiple working modes



High matching ability



Wide MPPT voltage range



Natural cooling



Automatic switch time < 10ms











	ASG-3.6SL-ZH	ASG-4SL-ZH	I ASG-4.6SL-ZH	ASG-5SL-ZH A	SG-6SL-ZH	ASG-5TL-ZH	ASG-6TL-ZH	ASG-8TL-ZH A	SG-10TL-ZH	ASG-12TL-ZH
Input DC	1 2 3 3 3 2 2 1			,						
Max.input voltage			550V					1000V		
Rated voltage			360V					600V		
MPPT voltage range			90 <b>-</b> 520V					200 <b>-</b> 900V		
Max.input current			16A/16A				\/16A		26A/26A	
Max.short circuit current			20A/20A				/20A		32A/32A	
MPPT number			2				2		2	
Max. input strings number Input Battery			2	_			2	_	4	_
Battery type			Li-ion					Li-ion		
Battery voltage range			80V-480V					200V-800V		
Max. charge / discharge current			30A/30A					30A/30A		
Communication			CAN/RS485					CAN/RS485		
Charging strategy for Li-lon battery			Self-adaption to BMS	5				Self-adaption to BMS		
Output AC (Grid side)										
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Rated grid voltage			220 V / 230 V					3/N/PE,380V/400V		
Rated grid frequency			50Hz/60Hz					50Hz/60Hz		
Max. output current	17.2A	19.1A	22A	23.9A	28.7A	17.2A	8.7A	11.5A	14.4A	17.3A
Power Factor				>	0.99 (0.8 leadin					
THDi		_			<3	190			_	
Input AC (Grid side)  Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW	10kW	12kW	16kW	20kW	24kW
Max. input power	4.8KW 21A	5.3KW 23A	6.2KW 26.8A	6.7KW 29.1A	34.8A	10kW 14.4A	12kW 17.3A	23.1A	20kW 28.9A	24KW 34.6A
Rated input voltage	ZIA	23/1	1/N/PE, 220 V / 230 V		J-1.0A	IT-TA	17.38	3/N/PE,380V/400V	20.5A	JH.UA
Rated input frequency			50Hz/60Hz					50Hz/60Hz		
Output AC (Back-up)										
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW
Max. output current	15.6A	17.4A	20A	21.7A	26A	7.2A	8.7A	11.5A	14.4A	17.3A
Back-up switch time			<10ms					<10ms		
Rated output voltage			220V/230V					380V/400V		
Rated frequency			50 Hz / 60 Hz					50Hz/60Hz		
THDv			<2%					<2%		
Efficiency										
Max. efficiency			97.4%					97.34%		
EU efficiency BAT charged/			96.5%					96.45%		
discharged to AC Max. efficiency			97.2%					97.35%		
Protection										
Integrated DC switch					Ye	!S				
DC rever-polarity protection					Ye					
Anti-islanding protection					Ye					
Short circuit protection					Ye					
Output over currentprotection					Ye					
DC Surge protection AC Surge protection										
* '					Тур	e II				
					Туре Туре	e II e II				
Insulation impedance detection  Ground fault monitoring					Type Type Ye	e II e II s				
Ground fault monitoring					Type Type Ye Ye	e II e II :s				
·					Type Type Ye	e II e II es es				
Ground fault monitoring Residual leakage current detection					Typi Typi Ye Ye Ye	e II e II :s :s :s				
Ground fault monitoring Residual leakage current detection Temperature protection					Typo Typo Ye Ye Ye	e II e II ss ss ss ss				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection					Typo Typo Ye Ye Ye Ye	e II e II s is s is s is s is				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection					Typi Typi Ye Ye Ye Ye	e II e II ss ss ss ss ss ss ss				
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Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI					Typy Typy Ye Ye Ye Ye Ye Ye	e II e II ss s				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection)					Typi Typi Ye Ye Ye Ye Ye Optio	e II e II s s s s s s s s s s s s s s s s s s				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow					Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT					Typi Typi Ye Ye Ye Ye Ye Optio	e II e II ss s				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data			455*462*214mm		Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s		540*420*218mm		
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT			455*462*214mm 19kg		Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s		540*420*218mm 31.5kg		
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D)	t)		455*462*214mm 19kg ≤13W		Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s				
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight	t)		19kg		Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s		31.5kg		
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night)	t)		19kg ≤13W		Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s		31.5kg ≤20W		
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range	t)	4000	19kg ≤13W -30+60 ℃	00m)	Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s	4000	31.5kg ≤20W -30+60 ℃	00m)	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept	t)	40001	19kg ≤13W -30+60°C Natural Cooling	00m)	Typi Typi Ye Ye Ye Ye Ye Optic	e II e II ss s	4000	31.5kg ≤20W -30+60 °C Natural Cooling	00m)	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection	t)	40001	19kg ≤13W -30+60 °C Natural Cooling m (Derating above 30	00m)	Typi Typi Ye Ye Ye Ye Ye Ye Optic Optic Ye	e II e II ss s	4000	31.5kg ≤20W -30+60 ℃ Natural Cooling Om (Derating above 30	00m)	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure			19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66	00m)	Typi Typi Ye Ye Ye Ye Ye Optic	e II e II s II s II s II s II s II s II		31.5kg ≤20W -30+60 ℃ Natural Cooling Im (Derating above 30 0-100% IP66		
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection			19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100%	00m)	Typi Typi Ye Ye Ye Ye Ye Ye Optic Optic Ye	e II e II s II s II s II s II s II s II		31.5kg ≤20W -30+60 C Natural Cooling 0m (Derating above 30 0-100%		2, NTS 631,NC RfG
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard		50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optio Optio Ye	e II e II ss s	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 ℃ Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal	EN:	50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic  Optic  Transfori	e II e II ss s	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal	EN:	50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Optic Optic Ye	e II e II ss	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal Battery connection type	EN:	50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Optic Ye	e II e II e II es ss	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal Battery connection type Type of AC terminal (Back-up)	EN:	50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Ye	e II e II e II es	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal Battery connection type Type of AC terminal (Grid side)	EN:	50549,EN62116	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Optic Ye	e II e II e II es	-EN 50549-1,PSE, PTF	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal Battery connection type Type of AC terminal (Grid side) Display&Communication	EN:	50549,EN62116 1000-6-1/2/3/4,	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 JEN 61727,INMETRO IEC 61000-3-11,EN 6		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Ye	e II e II e II es	-EN 50549-1,PSE, PTF 1/2,IEC/EN 62477-1;I	31.5kg ≤20W -30+60 C Natural Cooling Om (Derating above 30 0-100% IP66  IREE.RD 647,RD 413,RD169 EC/EN 61000-6-1/2/3/4,EN	99,UNE 217001/ I/IEC 61000-3-11	
Ground fault monitoring Residual leakage current detection Temperature protection Battery reverse protection AC Over voltage protection DC Over current protection I/V Curve scanning 24-hour load monitoring Integrated AFCI (DC arc-fault circuit protection) Antibackflow LVRT General Data Dimensions (W*H*D) Weight Battery standby consumption (night) Operating temperature range Cooling concept Max. operation altitude Relative humidity Ingress protection Topology structure Grid connection stadard Safety/EMC standard Type of DC terminal Type of AC terminal Battery connection type Type of AC terminal (Grid side)	EN:	50549,EN62116 1000-6-1/2/3/4,	19kg ≤13W -30+60 C Natural Cooling m (Derating above 30 0-100% IP66 ,EN 61727,INMETRO		Typy Typy Ye Ye Ye Ye Ye Ye Optic Optic Optic Optic Optic Ye	e II e II e II ss s	-EN 50549-1,PSE, PTF 1/2,IEC/EN 62477-1;I	31.5kg ≤20W -30+60 C Natural Cooling Im (Derating above 30 0-100% IP66	99,UNE 217001/ I/IEC 61000-3-11	

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## **BATTERY** PACK (HV)

ABL-(6.6-16.4)-H



## **BATTERY** PACK (HV)

(ABL-T(10-20)-H01)



Multiple protection functions



Ultra Safety By LFP



Max. Charging / Discharging Current:



Wide Compatibility



Module Number: 2-5 pcs



## **ALL-IN-ONE**

( ASG-5TL-TIOH )



All-in-One with modular design



Support module expansion



Automotive-Grade lithium-Ion battery



Calender Life > 6000



AI BMS Protection









### **BATTERY PACK**

	ABL-6.6-H	ABL-9.8-H	ABL-13.1-H	ABL-16.4-H	ABL-T05H-H01	ABL-T10H-H01	АВL-П5H-Н01	ABL-T20H-H01		
Battery										
BDU code	/					ABL-BDU-H01				
Battery module code		/					ABL-P05H-H01			
Number modules	2	3	4	5	1	2	3	4		
Usable energy	6.55kWh	9.83kWh	13.1kWh	16.38kWh	5.3kWh	10.6kWh	15.9kWh	21.2kWh		
Nominal voltage	204.8V	307.2V	409.6V	512V	102.4V	204.8V	307.2V	409.6V		
Operating voltage range	182.4-230.4V	273.6-345.6V	364.8-460.8V	456-576V	86.4V ~ 115.2V	172.8~230.4V	259.2~345.6V	345.6~460.8V		
Nominal power	5.12kW	7.68kW	10.24kW	12.8kW	3kW	6kW	9kW	12kW		
Battery module		32S1P, 3	.27kWh			32S1P,	5.3kWh			
Cell type		LiFe	PO4			LiFe	ePO4			
Max.charge current		32	A			35	5A			
Max.discharge current		32	A			35	5A			
Max.Short circuit current		350	00A				/			
Display		LE	D			LE	ED			
Max.discharge of depth		100	)%				/			
Communication		RS485	J/CAN			RS48	5/CAN			
Protection										
Integrated DC switch				Yes						
Low temperature protection				Yes						
Over voltage protection				Yes						
Over current protection				Yes						
Over temperature protection				Yes						
General Data										
Dimensions (W*H*D)mm	600*764*330	600*1021*330	600*1278*330	600*1535*330	700*650*200	700*1000*200	700*1350*200	700*1700*200		
Weight	113kg	157kg	201kg	245kg	65kg	115kg	165kg	215kg		
BDU code dimensions (W*H*D)mm		600*34	19*330		700*200*200					
BDU code weight		50k	g		30kg					
Battery module code dimensions (V	V*H*D)mm	600*41	5*330		700*350*200					
Battery module code weight		63k	g			35	ikg			
Operating temperature range		Charge: 0 -50°C; D	ischarge: -10 -50°C		Charge: -20 -50°C; Discharge: -20 -50°C					
Relative humidity		5-95%								
Mounting method		Grounded								
Mounting method			IP65							
Ingress protection		IP5		Natural Cooling						
•			Cooling			Natural	Cooling			
Ingress protection			-				Cooling 000m			
Ingress protection Cooling concept		Natural (	0m			< 40				
Ingress protection Cooling concept Max. Operating altitude		Natural ( 2000	0m			< 40	000m			

### **ALL-IN-ONE ENERGY STORAGE SYSTEM**

CE, RCM

UN38.3

CE, RCM

UN38.3

		ASG-5TL-TIOH	
PMnput		Efficiency	
Max. PV input power	7.5kW	Max. efficiency	98.00%
Max. PV input voltage	1000V	EU efficiency	97.30%
Min. input voltage	145V	MPPT efficiency	99.90%
MPPT voltage range	150~850V	Battery charged by PV Max. efficiency	98.50%
Rated input voltage	620V	Battery charge/discharge from/	97.60%
Max. PV input current	15A	to AC Max. efficiency	
Max. short-circuit current	20A	Battery Data (LiFePO4)	
No. of MPPT trackers	2	Nominal battery energy	10.6kWh
Strings per MPPT tracker	1	Available energy	9.0kWh
Output AC for On-grid		Max. output power	5kW
Rated power to grid	5kW	Max. charging/discharging current	25A
Max. apparent AC power to grid	5.5kW	Nominal voltage	204.8V
Rated grid voltage	3W/N/PE, 380V/400V	Working voltage	179.2-230.4V
Rated power frequency	50Hz/60Hz	Peak power	7kW lasts 10s
Max. output current to grid	8.5A	Peak current	35A lasts 10s
Max. AC current from grid	17A	Communication	CAN, RS485
Adjustable displacement power factor	0.8leading-0.8lagging	Working temperature	-20~50 <sup>°</sup> C
rhDi	<3%	Protection level	IP65
Output AC for Back-up	-5/0	Working humidity	5%~95%
Max. apparent output power	5kW	Working altitude	Below 2000m
Peak apparent output power (@60s)	10kW for 60s	Calendar life	>6000 (70% EOL)
Rated power frequency	3W/N/PE, 380V/400V	Certification	IEC62619/IEC60730/EN61000/UN38.
Max. output current	8.5A	Warranty	10 years
Automatic switch time	50Hz/60Hz (+/-0.2%)	Dimension (LxW)xH	1450*700*210mm
Nominal output voltage	50HZ/60HZ (+/-0.2%) <10ms	Net weight	135kg
THDV	<10ms <3%		

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EMC

Transportation





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.

> **37** Years History

**63.2** S Assets

81 Billion Revenue in 2022

500 China's Top

5 Business Industries

30000+ Employees

## **R&D Strength**

AUX Solar team is always adhered to the philosophy "quality is the footstone, innovation is the soul". We are market-orient ed, focus on the analysis of product technology trends and based on the real demands of customers. In order to provide customers the best products and more values. We keep improving the core competitiveness of products, comprehensively to achieve product leadship in solar industry.



6 R&D center



500 рсв engineers



18067 Patents



100 million Average annual investment



3 CNAS lab



120 Leading electroniccontrol staff



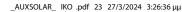


6% Annual R&D investment accounting for 6% of the sales











As a Value-Added Partner, we help our partners to grow by sharing technologies and delivering tailor-made solutions that address in the best way their business needs so as to create a value chain among our suppliers, customers and the end-users.

At Westnet, we provide access to evolutionary technology through strategic partnerships with innovative brands, among which stand several big manufacturers. We started our operations in 2005 as an IT distributor and gradually expanded into new areas such as consumer batteries, led lighting, air conditioning, home appliances and residential photovoltaics, enhancing our portfolio of available solutions.

Westnet's purpose is to provide access to advanced technology and innovative solutions across geographies. Nowadays, we operate in 3 countries, Greece, Cyprus and Poland with local offices while having developed an enlarged exports' network in over 60 countries in Europe, Middle East and Africa.

Our business activity "Westnet Solar Systems" offers energy solutions with state-of-the-art technology for the implementation of residential photovoltaic systems, through a dynamic product range, such as PV panels, inverters and battery systems. Focusing significantly on energy saving and improving living standards, we aim to cover the modern energy needs through holistic solutions, with the most reliable products and value-added services.

With the expansion of our business in photovoltaics category, our strategic collaboration with AUX Group is further strengthened, as AUXSOL - a leading producer of inverters and battery systems worldwide - joins our portfolio with a new exclusive partnership.

### Let's win green future together!











### **Westnet Distribution**

22 Thivaidos, 14564, Kifissia, Attica, Greece

auxsolutions.gr







