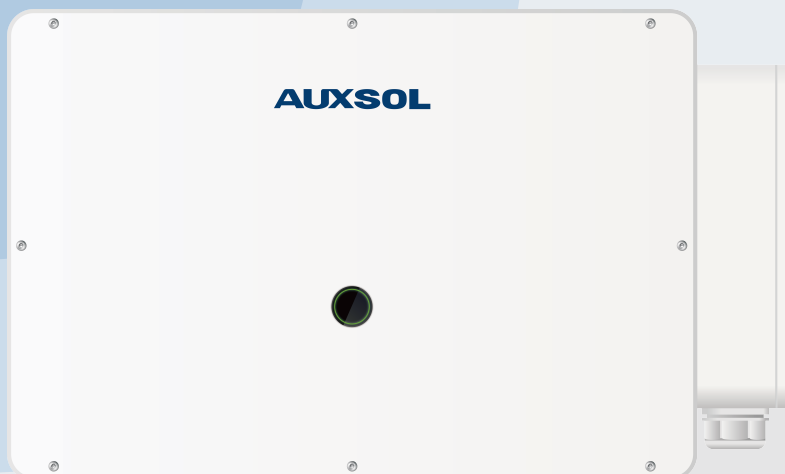


THREE PHASE ON-GRID INVERTER



ASN-90TL

ASN-99TL

ASN-100TL

ASN-110TL

KEY FEATURES



String current
up to 32A



Wide MPPT
voltage range



Max. efficiency
98.6%



Optional
AFCI function



Optional
anti-backflow



I-V curve scan

Input DC		
Max.input power		165kW
Max.input voltage		1100V
Rated voltage		620V
Start-up voltage		195V
MPPT voltage range		180-1000V
Max.input current		10*32A
Max.short circuit current		10*50A
MPPT number		10
Max. input strings number		20
MPPT Range full load		460-850V
Output AC		
Rated output power		110kW
Max.apparent output power		121kVA
Max.output power		121kW
Rated grid voltage		220V/380V,230V/400V,3/N/PE
Rated grid frequency		50Hz/60Hz
Rated grid output current		158.8A
Max.output current		174.6A
Power factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		<3%
Efficiency		
Max. efficiency		98.60%
EU efficiency		98.30%
China efficiency		98.10%
Protection		
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
Anti-backflow		Optional
Integrated AFCI (DC arc-fault circuit protection)		Optional
I/V Curve scanning		Optional
24-hour load monitoring		Optional
General Data		
Dimensions (W*H*D)		1007*668*357mm
Weight		88kg
Self consumption(night)		<2W
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 50549-1,IEC 61727, IEC 62116,NRS 097,VDE-AR-N 4110/4105
Safety/EMC standard		IEC/EN 62109-1/2,EN IEC 61000-6-2/4,EN IEC 61000-3-11,EN 61000-3-12
Type of DC terminal		MC4 connector
Type of AC terminal		OT terminal
Display&Communication		
Display		LED+Bluetooth+APP
Communication Interface		RS485,Optional:WIFI,4G,PLC

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.

Input DC		
Max.input power		135kW
Max.input voltage		1100V
Rated voltage		620V
Start-up voltage		195V
MPPT voltage range		180-1000V
Max.input current		6*32A
Max.short circuit current		6*50A
MPPT number		6
Max. input strings number		12
MPPT Range full load		460-850V
Output AC		
Rated output power		90kW
Max.apparent output power		99kVA
Max.output power		99kW
Rated grid voltage		220V/380V,230V/400V,3/N/PE
Rated grid frequency		50Hz/60Hz
Rated grid output current		130A
Max.output current		143A
Power factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		<3%
Efficiency		
Max. efficiency		98.60%
EU efficiency		98.30%
China efficiency		98.10%
Protection		
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
Anti-backflow		Optional
Integrated AFCI (DC arc-fault circuit protection)		Optional
I/V Curve scanning		Optional
24-hour load monitoring		Optional
General Data		
Dimensions (W*H*D)		1007*668*357mm
Weight		83kg
Self consumption(night)		<2W
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 50549-1,IEC 61727, IEC 62116,NRS 097,VDE-AR-N 4110/4105
Safety/EMC standard		IEC/EN 62109-1/2,EN IEC 61000-6-2/4,EN IEC 61000-3-11,EN 61000-3-12
Type of DC terminal		MC4 connector
Type of AC terminal		OT terminal
Display&Communication		
Display		LED+Bluetooth+APP
Communication Interface		RS485,Optional:WIFI,4G,PLC

Input DC	
Max.input power	150kW
Max.input voltage	1100V
Rated voltage	620V
Start-up voltage	195V
MPPT voltage range	180-1000V
Max.input current	10*32A
Max.short circuit current	10*50A
MPPT number	10
Max. input strings number	20
MPPT Range full load	460-850V
Output AC	
Rated output power	99kW
Max.apparent output power	99kVA
Max.output power	99kW
Rated grid voltage	220V/380V,230V/400V,3/N/PE
Rated grid frequency	50Hz/60Hz
Rated grid output current	143A
Max.output current	143A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%
Efficiency	
Max. efficiency	98.60%
EU efficiency	98.30%
China efficiency	98.10%
Protection	
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
Anti-backflow	Optional
Integrated AFCI (DC arc-fault circuit protection)	Optional
I/V Curve scanning	Optional
24-hour load monitoring	Optional
General Data	
Dimensions (W*H*D)	1007*668*357mm
Weight	88kg
Self consumption(night)	<2W
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 50549-1,IEC 61727, IEC 62116,NRS 097,VDE-AR-N 4110/4105
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Type of DC terminal	MC4 connector
Type of AC terminal	OT terminal
Display&Communication	
Display	LED+Bluetooth+APP
Communication Interface	RS485,Optional:WIFI,4G,PLC

Input DC		
Max.input power		150kW
Max.input voltage		1100V
Rated voltage		620V
Start-up voltage		195V
MPPT voltage range		180-1000V
Max.input current		10*32A
Max.short circuit current		10*50A
MPPT number		10
Max. input strings number		20
MPPT Range full load		460-850V
Output AC		
Rated output power		100kW
Max.apparent output power		110kVA
Max.output power		110kW
Rated grid voltage		220V/380V,230V/400V,3/N/PE
Rated grid frequency		50Hz/60Hz
Rated grid output current		144.5A
Max.output current		158.8A
Power factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		<3%
Efficiency		
Max. efficiency		98.60%
EU efficiency		98.30%
China efficiency		98.10%
Protection		
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
Anti-backflow		Optional
Integrated AFCI (DC arc-fault circuit protection)		Optional
I/V Curve scanning		Optional
24-hour load monitoring		Optional
General Data		
Dimensions (W*H*D)		1007*668*357mm
Weight		88kg
Self consumption(night)		<2W
Operating temperature range		-30...+60°C
Cooling concept		Fan-cooling
Max. operation altitude		4000m (Derating above 3000m)
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Type of DC terminal		MC4 connector
Type of AC terminal		OT terminal
Display&Communication		
Display		LED+Bluetooth+APP
Communication Interface		RS485,Optional:WIFI,4G,PLC