



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



Optional AFCI
function



Optional
anti-backflow



Max. IP66
protection

	ASN-90TL-PLUS	ASN-100TL-PLUS	ASN-110TL-PLUS
Input DC			
Max input power	1350W	1500W	1650W
Max input voltage	1500V	1500V	1500V
Rated voltage	630V	630V	630V
Start-up voltage	195V	195V	195V
MPPT voltage range		180-1000V	
Max input current	87.5A	87.5A	87.5A
Max short circuit current	87.5A	87.5A	87.5A
MPPT number	8	8	8
Max. input strings number	5	5	5
Output AC			
Rated output power	90kW	100kW	110kW
Max apparent output power	99kVA	110kVA	121kVA
Max output power	99kW	110kW	121kW
Rated grid voltage		220V/380V/230V/400V/3/N/PE	
Rated grid frequency		50/60Hz	
Rated grid output current	130A	144.5A	158.6A
Max output current	143A	158.6A	174.6A
Power factor		>0.99 (0.8 leading ~ 0.8 lagging)	
THDi		<3%	
Efficiency			
Max efficiency		98.65%	
China Efficiency		98.20%	
MPPT efficiency		99.80%	
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	
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	
General Data			
Dimensions (W*H*D)		1027*668*341mm	
Weight		87kg	
Self consumption(night)		<2W	
Operating temperature range		-30 ~ +60°C	
Cooling concept		fan-cooling	
Max. operation altitude		4000m (Operating above 3000m)	
Relative humidity		0 ~ 100%	
Ingress protection		IP66	
Topology structure		Transformerless	
Grid connection standard		NB/TT2004	
Safety/EMC standard		NB/TT2004	
Type of DC terminal		MC4 connector	
Type of AC terminal		DT terminal	
Display & Communication			
Display		LED + Bluetooth + APP	
Communication Interface		RS-485, Optional WiFi, 4G	