



THREE PHASE ON-GRID INVERTER

ASN-(33-40)TL

ASN-(50-80)TL-G2

ASN-(70-125)TL

KEY FEATURES



String current
up to 16A



Wide MPPT
voltage range



Max. efficiency
98.6%



Optional
AFCI function



Optional
anti-backflow



I-V curve scan

	ASN-33TL	ASN-36TL	ASN-40TL	ASN-50TL-G2	ASN-60TL-G2	ASN-70TL-G2	ASN-75TL-G2	ASN-80TL-G2	ASN-70TL	ASN-75TL	ASN-80TL	ASN-90TL	ASN-100TL	ASN-110TL	ASN-125TL
Input DC															
Max.input voltage	1100V					1100V					1100V				
Rated voltage	600V					630V					620V				
Start-up voltage	180V					160V					195V				
MPPT voltage range	160-1000V					150-1000V					180-1000V				
Max.input current	40A/40A/20A		40A*3	40A*4		48A*4			5*32A			6*32A	10*32A	10*40A	
Max.short circuit current	50A/50A/25A		50A*4	50A*4		60A*4			5*50A			6*50A	10*50A	10*50A	
MPPT number	3		4	4		4			5			6	10	10	
Max. input strings number	5		6	8		12			10			12	20	20	
Output AC															
Rated output power	33kW	36kW	40kW	50kW	60kW	70kW	75kW	80kW	70kW	75kW	80kW	90kW	100kW	110kW	125kW
Max.apparent output power	36.3kVA	39.6kVA	44kVA	55kVA	66kVA	77kVA	82.5kVA	88kVA	77kVA	82.5kVA	88kVA	99kVA	110kVA	121kVA	137.5kVA
Rated grid voltage	400V,3/N/PE					400V, 3/N/PE					220V/380V,230V/400V,3/N/PE				
Rated grid frequency	50Hz/60Hz					50Hz/60Hz					50Hz/60Hz				
Rated output current	47.6A	52A	57.7A	72.2A	86.6A	101.A	108.3A	115.5A	101A	108.3A	115.5A	130A	144.5A	158.8A	180.4A
Max.output current	52.4A	57.2A	63.5A	79.4A	95.3A	111A	119.1A	127A	111.1A	119.1A	127A	143A	158.8A	174.6A	198.5A
Power factor	1 (0.8 leading - 0.8 lagging)										>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%										<3%				
Efficiency															
Max. Efficiency	98.60%					98.5%					98.6%				
EU Efficiency	98.30%										98.3%				
Protection															
Integrated DC switch	Yes										Yes				
DC rever-polarity protection	Yes										Yes				
Anti-islanding protection	Yes										Yes				
Short circuit protection	Yes										Yes				
Output over current protection	Yes										Yes				
DC Surge protection	Type II										Type II				
AC Surge protection	Type II										Type II;Optional:Type I				
Insulation impedance detection	Yes										Yes				
Ground fault monitoring	Yes										Yes				
Residual leakage current detection	Yes										Yes				
Temperature protection	Yes										Yes				
Strings monitoring	Yes										Yes				
Antibackflow	Optional										Optional				
Integrated AFCI (DC arc-fault circuit protection)	Optional										Optional				
24-hour load monitoring	Optional										Optional				
General Data															
Dimensions (W*H*D)	568*443*228mm					735*530*285mm					1007*668*357mm				
Weight	35kg					60kg					75kg				
Self consumption(night)	<1W					<1W					<2W				
Operating temperature range	-30...+60°C					-30...+60°C					-30...+60°C				
Cooling concept	Fan-cooling					Fan-cooling					Fan-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 stadard	NB/T 32004,EN50549-1					NB/T 32004,EN50549-1					NB/T 32004,EN50549-1,IEC 61727,IEC 62116				
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 (Optional:LCD)										LED+Bluetooth+APP				
Communication Interface	RS485,Optional:WIFI,4G,LAN										RS485,Optional:WIFI,4G,PLC				

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