

THREE PHASE ON-GRID INVERTER



ASN-(33-40)TL

KEY FEATURES



EFFICIENT

- Maximum efficiency 98.6%
- Maximum string current of 40A, perfectly compatible with 182/210 components
- Support 1.5 times over configuration on the DC side
- 4-channel MPPT circuit design, suitable for complex roofs



INTELLIGENCE

- Optional string monitoring function, accurately identifying string anomalies
- Optional PID repair function to increase system power generation
- One click QR code scanning for website building, supporting remote upgrades and settings
- Optional AFC intelligent anti pull arc to reduce fire risk



FRIENDLY

- AC/DC maximum 20KA secondary lightning protection design, actively eliminating lightning hazards
- Protection level IP66, suitable for various harsh working environments
- Support I-V curve scanning to accurately identify string anomalies
- Home appliance grade EMC design, lower electromagnetic interference

	ASN-33TL	ASN-36TL	ASN-40TL
Input DC			
Max.input power	49.5kW	54kW	60kW
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 strings number	5		6
Output AC			
Rated output power	33kW	36kW	40kW
Max.apparent output power	36.3kVA	39.6kVA	44kVA
Max.output power	36.3kW	39.6kW	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%		
Efficiency			
Max. efficiency	98.6%		
EU efficiency	98.3%		
MPPT efficiency	99.8%		
Protection			
Integrated DC switch	Yes		
DC rever-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		
General Data			
Dimensions (W*H*D)	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/T32004, EN 50549-1		
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		
Display&Communication			
Display	LED+Bluetooth+APP (Optional:LCD)		
Communication Interface	RS485,Optional:WIFI,4G,LAN		

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