

# THREE PHASE ON-GRID INVERTER



ASN-30TL-G2

## 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
- Wide MPPT voltage range, early start and late shutdown, effectively increasing power generation



### INTELLIGENCE

- Automatic voltage stabilization technology, adaptive to complex power grids
- Optional PID repair function to increase system power generation
- One click QR code scanning for website building, supporting remote upgrades and settings
- Optional AFCI 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-30TL-G2	
<b>Input DC</b>	
Max.input power	45kW
Max.input voltage	1100V
Rated voltage	620V
Start-up voltage	160V
MPPT voltage range	150-1000V
Max.input current	40A/32A/32A
Max.short circuit current	50A/40A/40A
MPPT number	3
Max. input strings number	6
<b>Output AC</b>	
Rated output power	30kW
Max.apparent output power	33kVA
Max.output power	33kW
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/60 Hz
Rated grid output current	43.3A
Max.output current	47.6A
Power factor	1 (0.8 leading ... 0.8 lagging)
THDi	<3%
<b>Efficiency</b>	
Max. efficiency	98.6%
EU efficiency	98.2%
MPPT efficiency	99.8%
<b>Protection</b>	
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
<b>General Data</b>	
Dimensions (W*H*D)	524*419*198mm
Weight	24.5kg
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, IEC 61727, IEC 62116, IEC 61683, VDE 4105
Safety/EMC standard	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
<b>Display&amp;Communication</b>	
Display	LED+Bluetooth+APP(Optional:LCD)
Communication Interface	RS485,Optional:WIFI,4G,LAN

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