

# BNT Series / 70-110kW

## Commercial & Power Plants Three Phase String Inverter



**Max.  
38A**

String Current Up  
To 38A

**>1.5**

> 1.5 Time  
PV Oversize Input



Multiple Intelligent  
Protections

- IP 68 Cooling Fan
- Type II DC & AC lightning protection
- AC output 1.1x continuous operation
- Compatible with 210 Solar Panel
- MPPT efficiency > 99.9%
- Intelligent Temperature Control System
- Active and reactive power compensation, adjust power factor
- Arc Fault Circuit Interrupter (AFCI) (Optional)



Anti-Feed-in  
Function



Wi-Fi Standard  
Ethernet/GPRS  
Optional



Quick & Easy  
Config. via Wi-Fi



MODBUS  
Communication Ready

PV Input Data	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
Max. DC Power ( W )	105000	112500	120000	135000	150000	165000
Max. DC Voltage ( V )	1100					
MPPT Voltage Range ( V )	200-1000					
MPPT Full Power Voltage Range ( V )	500-850					
Rated Input Voltage ( V )	620					
Start-up Voltage ( V )	200					
Max. Input Current ( A )	38 x 6					
Max. Short Current ( A )	48 x 6					
No. of MPPT Tracker / No. of PV String	6/12					
Input Connector Type	MC4					
<b>AC Output Data</b>						
Max. Output Power ( W )	77000	82500	88000	99000	110000	110000
Nominal Output Power ( W )	70000	75000	80000	90000	100000	110000
Max. Output Current ( A )	111	120	127	143	158	158
Nominal Output Voltage ( V )	3P+N+PE/3P+PE 230/400					
Grid Voltage Range	260Vac-519Vac (according to local standard)					
Nominal Output Frequency ( Hz )	50/60					
Grid Frequency Range	45-55Hz/55-66Hz(according to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	<3%					
<b>Efficiency</b>						
Max. Efficiency	99.00%					
Euro Efficiency	98.30%			98.40%		
<b>Protection</b>						
PV Reverse Polarity Protection	YES					
PV Insulation Resistance Detection	YES					
AC Short Circuit Protection	YES					
AC Over Current Protection	YES					
AC Over Voltage Protection	YES					
Anti-Islanding Protection	YES					
Residual Current Detection	YES					
Over Temperature Protection	YES					
Integrated DC switch	YES					
Surge Protection	Integrated (Typell)					
Smart IV Curve Scanning	YES					
Quick Arc Fault Circuit Interruption	Optional					
<b>General Data</b>						
Dimensions ( W x H x D, mm )	979x610x310					
Weight ( kg )	72			76		
Protection Degree	IP65					
Enclosure Material	Aluminum					
Ambient Temperature Range ( °C )	-25 to 60					
Humidity Range	0-100%					
Topology	Transformerless					
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Cooling Concept	Intelligent fan cooling					
Noise Emission ( db )	<55			<60		
Night Power Consumption ( W )	<1					
Max. Operation Altitude ( m )	≤4000					
<b>Certifications and Standards</b>						
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					
Safety Standard	IEC 60068, UL1741, EN62109					
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					