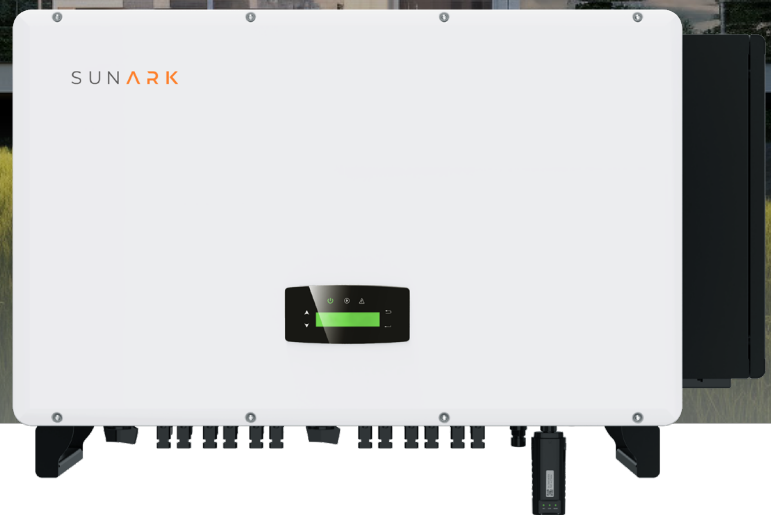


70-110 kW

# THREE PHASE PV STRING INVERTER

The SunArk BNT Series Three-phase string inverters are designed for commercial and power plant PV system applications, rating from 70kW to 110kW. All models with aluminum housings which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

The inverter menu is activated by sensor touch buttons. Communication implements are via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal or APP.



MAX  
**38**

## MAX. 38A<sub>dc</sub>

String Current Up To 38A

MAX  
**1.5**

## PV Oversize

>1.5 Time PV Oversize Input



## Protection

Multiple intelligent Protections



## Anti-Flow

Anti-Feed-in Function



## Wi-Fi

Wi-Fi Standard Ethernet/GPRS Optional



## Configuration

Quick & Easy Config. via Wi-Fi



## Modbus

MODBUS Communication Ready

- MPPT efficiency > 99.9%
- Intelligent Temperature Control System
- Active and reactive power compensation, adjust power factor
- Arc Fault Circuit Interrupter (AFCI) (Optional)

- IP 68 Cooling Fan
- Type II DC & AC lightning protection
- AC output 1.1x continuous operation
- Compatible with 210 Solar Panel

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 )	150					
Max. Input Current ( A )	38 x 6					
Max. Short Current ( A )	48 x 6					
No. of MPP 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/54-66Hz (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 (Type III)					
Smart IV Curve Scanning	YES					
Quick Arc Fault Circuit Interruption	Optional					
<b>General Data</b>						
Dimensions ( W x H x D, mm )	979 x 610 x 310					
Weight ( kg )	72			76		
Protection Degree	IP65					
Enclosure Material	Aluminum					
Ambient Temperature Range ( °C )	-25 to 60					
Humidity Range	0-100%					
Topology	Transformer less					
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, IEC61727					