

May the Sun brighten Innumerable Homes

**To be the leading provider of PV,
Energy storage and Charging
solutions globally.**



String inverter:

Single phase (1-10kw), three phase (3-60kw)

Hybrid storage inverter:

Single phase (1-6kw), three phase (3-20kw)

AC coupled inverter:

Single phase (1-4.6kw)



About us

Sunplus, located in Shanghai, the economic, trade, shipping, science and technology center of China, is mainly engaged in the R&D, production, marketing and sales of three categories of new energy products-PSC. The typical products are PV inverter, storage inverter, lithium battery pack and EV charger that are widely applied to household, industrial and commercial new energy systems. Sunplus production base covers an area of 36,000 square meters and has a yearly production capacity of 1GW. The production line is equipped with large-scale advanced automation equipments to ensure the high quality, high standard and high stability of the products.

Sunplus market orientation is global, and it has established branches and overseas warehouses in China, Europe, the Middle East and other countries to provide localized, professional and efficient product supply and service for the global market. Sunplus has a professional organization with strong innovation ability, and a young and elite management team. It has been deeply involved in the field of new energy for many years, laying the foundation for the rapid development. Sunplus is committed to becoming a practitioner of green energy. By developing green, safe and reliable clean and renewable energy, it improves people's dependence on non-clean energy, and also contributes to the great vision " To be the leading provider of PV, Energy Storage and Charging solutions globally".



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String Inverter

Hybrid Storage Inverter

AC Coupled Inverter

Single Phase

Residential HNS series HNS-TL1

1-3 kW



Residential HNS series HNS-TL

3-6 kW



Residential HNS series HNS-TL

7-10 kW



Three Phase

Commercial & Power Plants BNT series BNT

3-25kW



Commercial & Power Plants BNT series BNT

30-60kW



Hybrid Inverter

Single Phase Hybrid Inverter 1-6kW for Low Voltage Battery



AC Coupled Inverter 1-4.6kW



Three phase Hybrid Inverter 3-20kW



BNT

3-25 kW



Smart | Safety | Efficient

The Afore BNT Series Three-phase string inverters are designed for residential and small commercial PV system applications, rating from 3kW to 25kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

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.



MPPT Range
Wide MPPT Range



Max. 1.5
PV OVERSIZE
1.5 Times PV Oversize



Max. 1100V
Max. DC 1100V



UNIBODY
One-piece
Aluminum Housing



PROTECTION
Build-in SPD Type II



SMART
Smart IV Curve Scanning



UPDATE
Remote Firmware Update



-  Quick Arc Fault circuit interruption (Optional)
-  WIFI standard
-  Compact design
-  Multiple intelligent protections
-  Compatible with bifacial modules
-  String level monitoring

PV Input Data	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
Max. DC Power (W)	5100	6000	7500	9000	12000	15000
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	150-1000					
MPPT Full Power Voltage Range (V)	200-850			250-850	300-850	500-850
Rated Input Voltage (V)	620					
Start-up Voltage (V)	150					
Max. Input Current (A)	15x2					
Max. Short Current (A)	25x2					
No. of MPP Tracker / No. of PV String	2/2					
Input Connector Type	MC4					

AC Output Data	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
Max. Output Power (W)	3300	4400	5500	6600	8800	11000
Nominal Output Power (W)	3000	4000	5000	6000	8000	10000
Max. Output Current (A)	5.3	7	8.5	10.5	13.5	17
Nominal Output Voltage (V)	3P+N+PE/3P+PE230/400					
Grid Voltage Range	260Vac-519Vac (according to local standard)					
Nominal Output Frequency (Hz)	50/60					
Grid Frequency Range	45-55Hz/55-65Hz(according to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	< 3%					

Efficiency	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
Max. Efficiency	98.30%					98.70%
Euro Efficiency	97.61%	97.65%	98.00%	98.05%		98.23%

Protection	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
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 (TypeII)					
Smart IV Curve Scaning	YES					
Quick Arc Fault Circuit Interruption	Optional					

General Data	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
Dimensions (H x W x D, mm)	510x 370x 167				510x 370x 192	
Weight (kg)	16				15	
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	Convection				Intelligent fan cooling	
Noise Emission (db)	<30					
Night Power Consumption (W)	<1					
Max. Operation Altitude (m)	≤4000					

Certifications & Standards	BNT003KTL	BNT004KTL	BNT005KTL	BNT006KTL	BNT008KTL	BNT010KTL
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					

PV Input Data	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
Max. DC Power (W)	18000	19500	22500	25500	30000	37500
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	150-1000					
MPPT Full Power Voltage Range (V)	500-850					
Rated Input Voltage (V)	620					
Start-up Voltage (V)	150					
Max. Input Current (A)	15x2		20+32		32x2	
Max. Short Current (A)	25x2		30+48		48x2	
No. of MPP Tracker / No. of PV String	2/2		2/3		2/4	
Input Connector Type	MC4					

AC Output Data	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
Max. Output Power (W)	13200	14300	16500	18700	22000	27500
Nominal Output Power (W)	12000	13000	15000	17000	20000	25000
Max. Output Current (A)	21.5	22	27	30	32	40
Nominal Output Voltage (V)	3P+N+PE/3P+PE230/400					
Grid Voltage Range	260Vac-519Vac (according to local standard)					
Nominal Output Frequency (Hz)	50/60					
Grid Frequency Range	45-55Hz/55-65Hz(according to local standard)					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Output Current THD	< 3%					

Efficiency	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
Max. Efficiency	98.70%			98.75%		
Euro Efficiency	98.23%			98.35%		

Protection	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
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 (TypeII)					
Smart IV Curve Scaning	YES					
Quick Arc Fault Circuit Interruption	Optional					

General Data	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
Dimensions (H x W x D, mm)		510x 370x 192			535x 370x 192	
Weight (kg)	15	17			19	
Protection Degree				IP65		
Enclosure Material				Aluminum		
Ambient Temperature Range(℃)				-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)				<40		
Night Power Consumption (W)				<1		
Max. Operation Altitude (m)				≤4000		
				<51		

Certifications & Standards	BNT012KTL	BNT013KTL	BNT015KTL	BNT017KTL	BNT020KTL	BNT025KTL
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					
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