

# Afore BNT100KTL On Grid PV Inverter Instruction Manual

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**BNT100KTL On Grid PV Inverter** 



#### **Specifications**

Manufacturer: Afore New Energy

Model: Three-Phase BNT070KTL, BNT075KTL, BNT080KTL, BNT090KTL, BNT100KTL, BNT110KTL

#### Installation

#### **Pre-installation**

Before starting the installation process, unpack the product and check the package list to ensure all components are present. Familiarize yourself with the product overview and select a suitable mounting location according to the guidelines provided.

## Mounting

Follow the mounting instructions provided in the manual to securely install the PV inverter in the chosen location.

## **Electrical Connection**

Connection

Connect the PV panels to the inverter following the specified guidelines in section 4.1 of the manual.

#### **About This Manual**

#### Scope of Validity

This manual describes the installation, commissioning, operation and maintenance of the following on-grid PV inverters produced by Afore New Energy:

#### Three-Phase

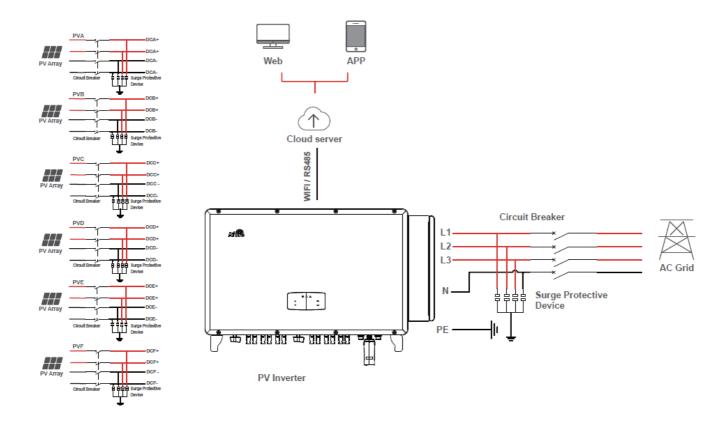
BNT070KTL BNT075KTL BNT080KTL BNT090KTL BNT100KTL BNT110KTL Please keep this manual available all the time in case of any emergency.

#### **Target Group**

This manual is for qualified personnel. The tasks described in this manual must only be performed by qualified personnel.

## **System Diagram**

The typical on-grid PV system connection diagram. BNT070-110KTL



#### **Circuit Breaker Recommendation**

Туре	Max AC Current (A)	Rated current of AC breaker (A)
BNT070KTL	111	160
BNT075KTL	120	160
BNT080KTL	127	160
BNT090KTL	143	250
BNT100KTL	158	250
BNT110KTL	158	250

## **Surge Protector Recommendation**

- AC side, nominal discharge current 20KA, second grade lightning protection, protection voltage 2.5KV.
- DC side, nominal discharge current 20KA, second grade lightning protection, protection voltage 3.2KV.

#### Note:

The Inverter can be only connected to low-voltage grid. (230/400Vac, 50/60Hz).

## Safety & Symbols

## **Safety Precautions**

- 1. All work on the inverter must be carried out by qualified electricians.
- 2. The device may only be operated with PV panels.
- 3. The PV panels and inverter must be connected to the ground.
- 4. Do not touch the inverter cover until 5 minutes after disconnecting both DC and AC power supply.
- 5. Do not touch the inverter enclosure when operating, keep away from materials that may be affected by high temperatures.
- 6. Please ensure that the used device and any relevant accessories are disposed
- 7. in accordance with applicable regulations.
- 8. Afore inverter should be placed upwards and handled with care in delivery. Pay attention to waterproof. Do not expose the inverter directly to water, rain, snow or spray.
- 9. Alternative uses, modifications to the inverter not recommended. The warranty can become void if the inverter was tampered with or if the installation is not in accordance with the relevant installation instructions.

#### **Explanations of Symbols**

Afore inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.



Danger of electric shock

The inverter contains fatal DC and AC power. All work on the inverter must be carried out by qualified personnel only.



Beware of hot surface

The inverter's housing may reach uncomfortably hot 60°C (140°F) under high power operation. Do not touch the inverter enclosure when operation.



Residual power discharge

Do not open the inverter cover until 5 minutes after disconnection both DC and AC power supply.



Important notes

Read all instructions carefully. Failure to follow these instructions, warnings and precautions may lead to device malfunction or damage.



Do not dispose of this device with the normal domestic waste.



Without transformer

This inverter does not use transformer for the isolation function.



CE mark

The inverter complies with the requirements of the applicable CE guidelines.



Refer to manual before service.

#### Installation

#### **Pre-installation**

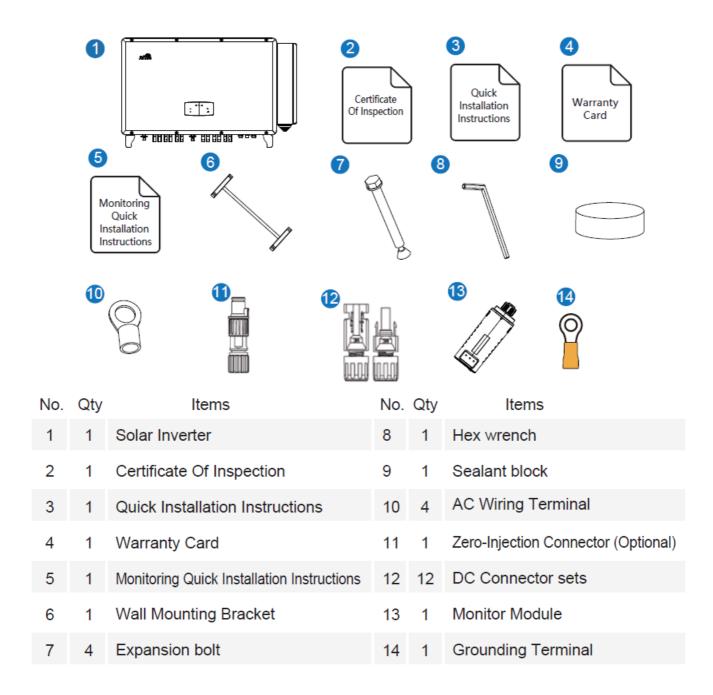
## **Unpacking & Package List**

#### Unpacking

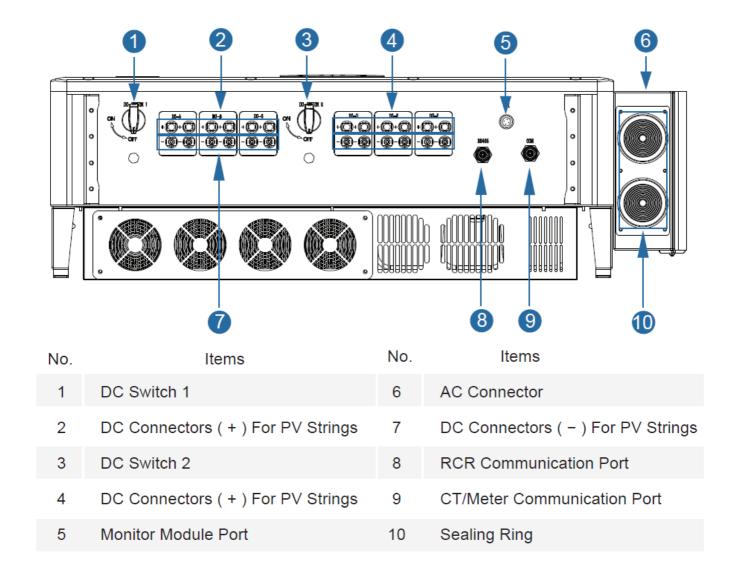
On receiving the inverter, please check to make sure the packing and all components are not missing or damaged. Please contact your dealer directly for supports if there is any damage or missing components.

## **Package List**

Open the package, please check the packing list shown as below.



#### **Product Overview**

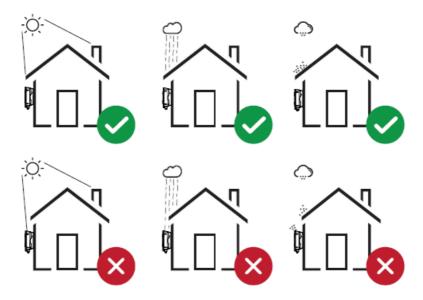


## **Mounting Location**

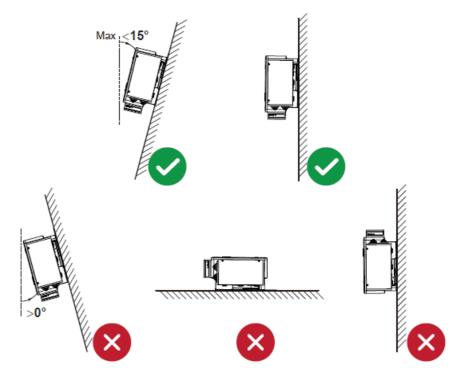
The inverters are designed for indoor and outdoor installation (IP65), to increase the safety, performance and lifespan of the inverter, please select

the mounting location carefully based on the following rules:

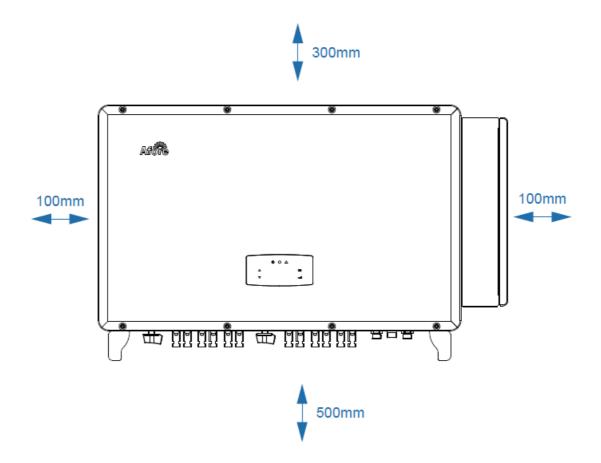
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within -25°C ~ 60°C (between -13 °F and 140°F).
- The installation of inverter should be protected under shelter. Do not expose the inverter to direct sunlight, water, rain, snow, spray lightning, etc.



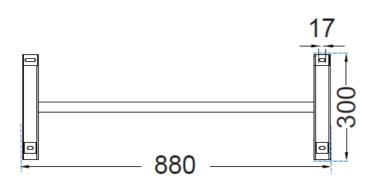
• The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle. Please refer to below picture.

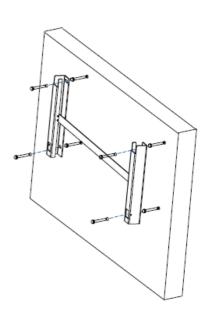


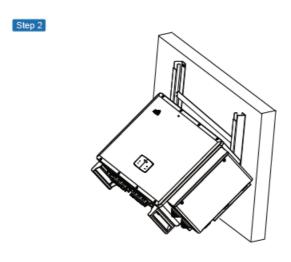
• Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.



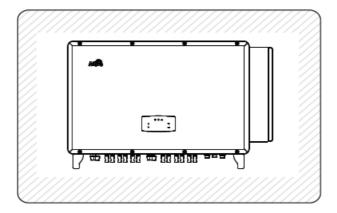
# Mounting











#### **Electrical Connection**

#### **PV Connection**

## 110kW three phase inverters have6 MPPT channels, each channel includes two PV string input;

For the best results, make sure that each MPPT channel is correctly connected with PV string. Otherwise, the inverter will activate voltage or current protection automatically.

Please make sure below requirements are followed:

- The open-circuit voltage and short-circuit current of PV string should not exceed the reasonable range of the inverters.
- The isolation resistance between PV string and ground must exceed 10 k $\Omega$ .
- The polarity of PV strings are correct.
- Use the DC plugs in the accessory.
- The lightning protector should be equipped between PV string and inverter.
- Disconnect all of the PV (DC) switch during wiring.

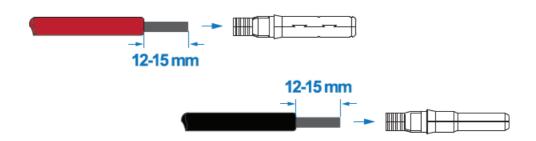
#### Warning:

The fatal high voltage may on the DC side, please comply with electric safety when connecting. Please make sure the correct polarity of the cable connected with inverter, otherwise inverter could be damaged.

#### Note:

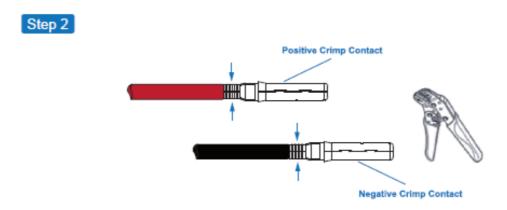
PV cable suggestion Cross-section 4mm<sup>2</sup>

# Step 1



## Note:

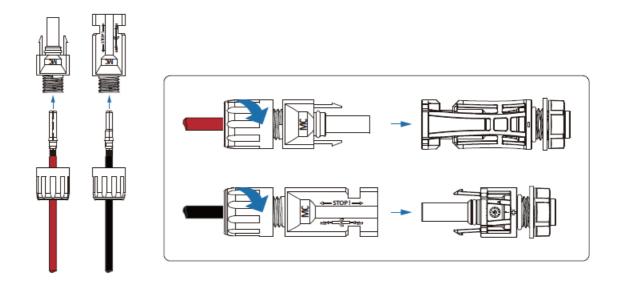
Please use PV connector crimper to pinch the point of the arrow.



## Note:

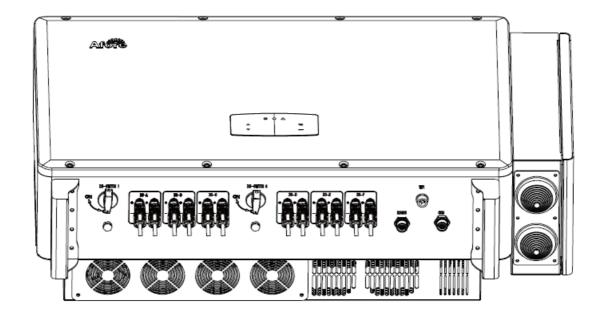
You'll hear click sound when the connector assembly is correct.

# Step 3



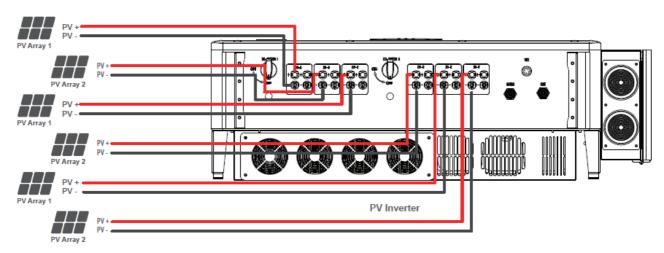
## Note:

PV string suggestion:



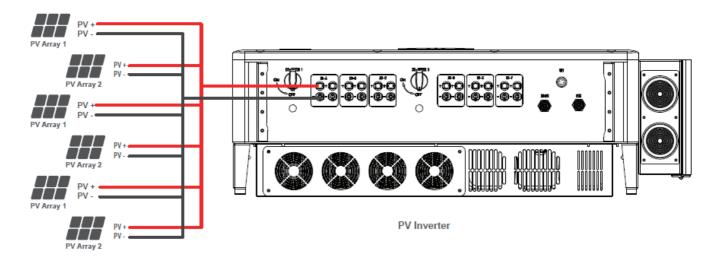
## **Correct Installation:**

Channel A, B, C and D,E,F connected with PV strings separately



## Wrong Installation:

Do not connect more than two PV strings into one channel



#### **Grid Connection**

The external AC switch should be installed between inverter and grid to isolate from grid. Please make sure below requirements are followed before connecting AC cable to the inverter.

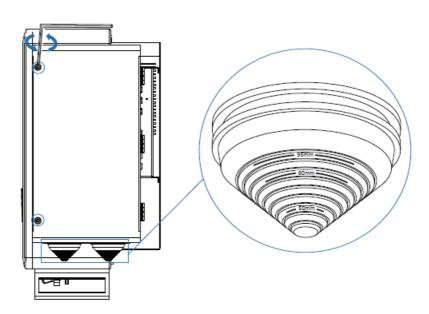
- The AC (grid) voltage should not exceed the reasonable range of the inverters.
- The phase-line from AC distribution box are correctly connected.
- Use the AC plugs in the accessory.
- The surge protector should be equipped between grid and inverter.
- Disconnect the AC (grid) switch during wiring.

#### Warning:

The fatal high voltage may on the AC side, please comply with electric safety when connecting. Please make sure the right line of AC grid connected with inverter, otherwise inverter could be damaged.

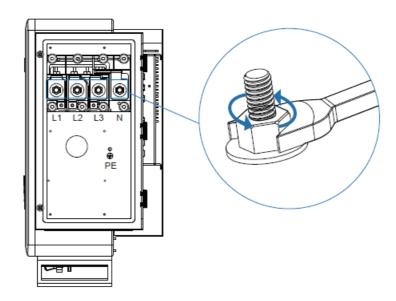
- 1. Use a hex wrench to remove the two screws of the AC connector cover plate.
- 2. Cut off the appropriate sealing ring according to the outer diameter of the cable.



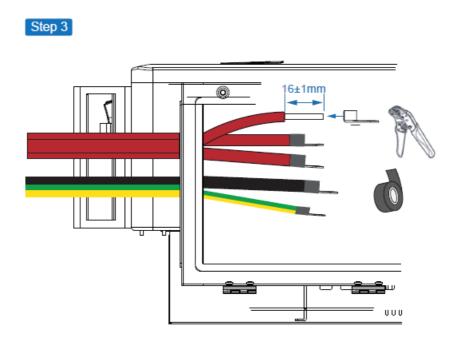


1. Use a wrench to remove the fastening nut of the AC terminal.





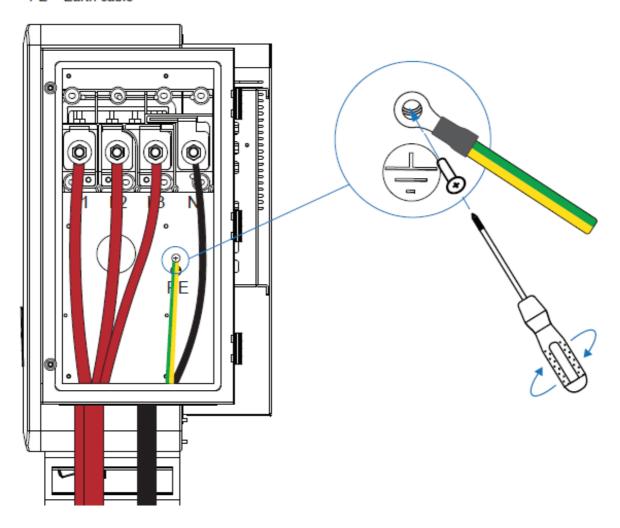
The wiring terminals should be wrapped with insulation tape, otherwise it will cause a short circuit and damage the inverter.



- 1. Thread the wire through the sealing ring.
- 2. After the terminals are crimpped, wrap the joint position with insulation tape.
- 3. Connect the wire to the corresponding terminal and tighten the fastening nut to check for the risk of short circuit.

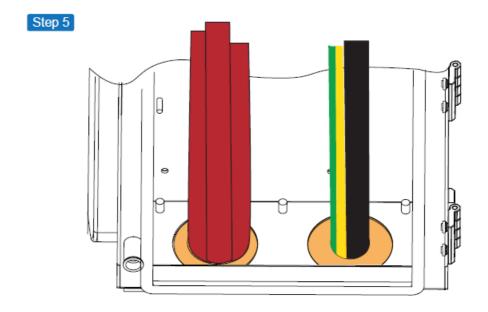


N = Neutral line L1, L2, L3 = Live line PE = Earth cable

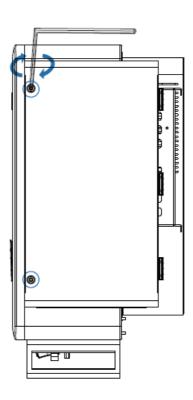


The user must connect a protective earth (PE) terminal to prevent electric shock. And make sure this PE terminal is properly grounded.

1. Connect the wire to the corresponding terminal and tighten the fastening nut to check for the risk of short circuit.



1. Press outward from the inside of the inverter and completely seal the surrounding area of the wire with a sealant block.



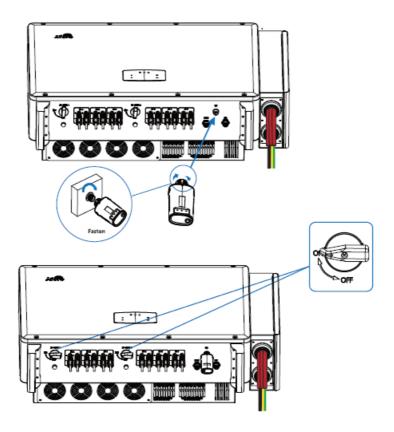
1. Use a hex wrench to tighten the loosened screws again.

## **Communication Connection**

The monitoring module could transmit the data to the cloud server, and display the data on the PC, tablet and smart-phone.

## Install the WIFI / Ethernet / GPRS / RS485 Communication

WIFI / Ethernet / GPRS / RS485 communication is applicable to the inverter. Please refer to "Communication Configuration Instruction" for detailed instruction.



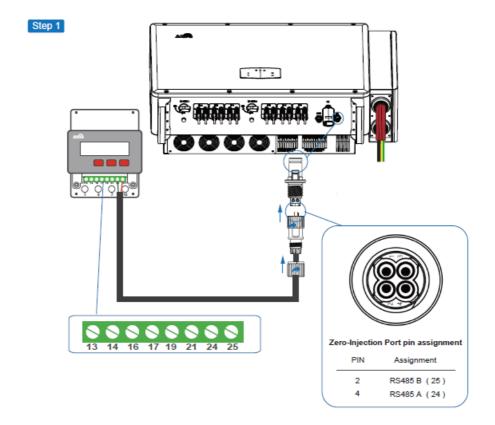
The DC switch requires both to be open, not one to be opened and the other to be closed.

Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

## 4.5 Zero-injection Smart Meter (Optional)

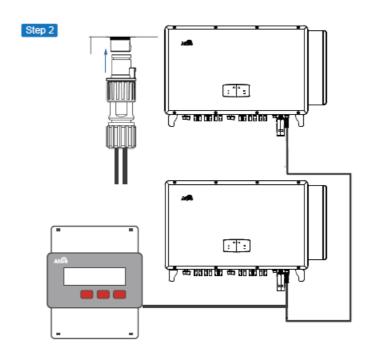
## 1. Step 1

Smart meter is an intelligent control equipment which is used for on-grid inverters. Its main function is to measure the forward and reverse power on the grid-connected side, and transmit data to the inverter through RS485 communication to ensure that the power of the inverter is less than or equal to the user's home load, and no current flows into the grid



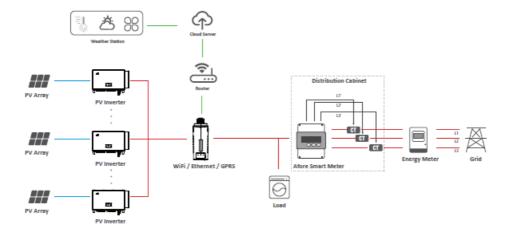
- please follow below pin order
- RS485B (Pin 1/2) to three-phase meter (Pin 25)
- RS485A (Pin 3/4) to three-phase meter (Pin 24)

2.



## Note:

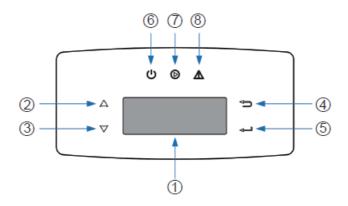
When multiple inverters are connected in parallel, the total output power could not exceed the reasonable range of the smart meter.



The Inverter could be connected in parallel with Smart Meter, make sure the total load power not exceed Smart Mater's limitation.

## Operation

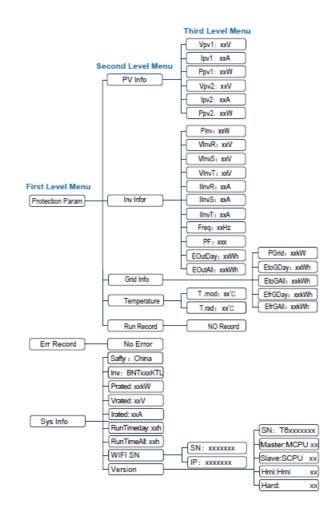
## **Control Panel**

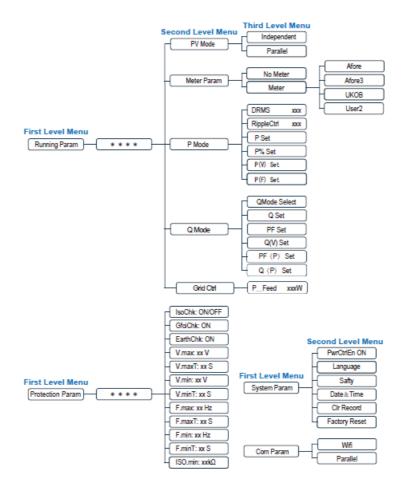


No.	Items	No.	Items
1	LCD Display	5	ENT Touch Button
2	UP Touch Button	6	POWER LED Indicator
3	<b>DOWN</b> Touch Button	7	GRID LED Indicator
4	ESC Touch Button	8	FAULT LED Indicator

Sign	Power	Color	Explanation
POWER	ON	Green	The inverter is stand-by
	OFF		The inverter is power off
CRID	ON	Green	The inverter is feeding power
GRID	OFF		The inverter is not feeding power
FAULT	ON	Red	Fault occurred
FAULI	OFF		No fault

## **Menu Structure**

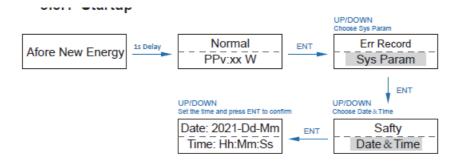




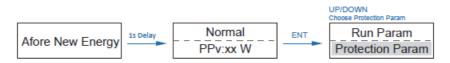
## **Explanation of LCD Display Content**

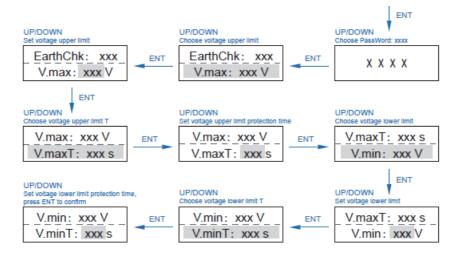
Nouns	Explanation
Sys Info	Check the inverter's real-time operating information
Error Record	Check the inverter's fault records with date and time
System Param	Set the inverter's safty code / lanuage / time & date, restore to factory settings
Version	Check the inverter's SN and firmware version
Protection Param	Set the inverter's protection parameters
Running Param	Set the inverter's operating mode like parellel, active / reactive power control

## Setting

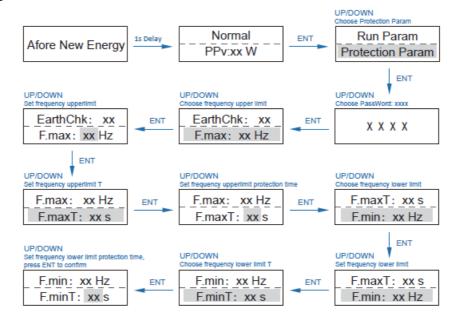


## 5.3.2 Voltage Range





## **Frequency Range**



#### Note:

The parameters setting only works after the inverter is restarted.

## Commissioning

Before starting up commissioning at site, please make sure below procedures and requirements are fully meet.

- Mounting location is meet the requirements.
- All of the electrical wiring is firmly connected, including PV wiring, Grid wiring and Earth wiring.

The inverter setting has been finished accordingly to local standards or regulations.

#### **Commissioning Procedures**

- Turn on the AC switch between inverter output and the public grid;
- Turn on the DC switch on the inverter;
- · Turn on the PV switch of the system.

## Start-up & Shut Down

#### Shut down

- Turn off the DC switch on the inverter.
- Turn off the DC switch between PV panels and the inverter (if any).
- Close the AC switch between the inverter and the public grid.

#### Note:

The inverter will be operable after minimum 5 minutes.

## Restart

- Shut down the inverter according to Chapter 7.1.
- Start-up the inverter according to Chapter 6.

## Maintenance&Trouble Shooting

#### **Maintenance**

Periodically maintenance are necessary, please follow steps as below. PV connection: twice a year

AC connection : twice a year Earth connection: twice a year

Heat sink: clean with dry towel once a year.

## **Trouble Shooting**

Fault messages will be displayed when fault occurs, please according to the troubleshooting table find related solutions.

## **Trouble-Shooting List**

Type of Fault	Code	Name	Description	Recommend Solution
	A01	PvConnectFault	The actual PV connection type (independent, parallel) different from setup.	Set PV connection type according t o the actual PV connection type.
	A02	IsoFault	ISO check among PV panels/ the wires to the ground is abnormal.	<ul> <li>Check whether the PV modules an d its wiring are immersed in water a nd whether the insulation is damag ed, and then make corrections.</li> <li>If the fault occurs continuously and frequently, contact the local distributors for help.</li> </ul>

	A03	PvAfciFault	PV current arcing	<ul> <li>Check whether the PV cables and wiring terminals are broken or conn ection abnormal, and correct them.</li> <li>If the fault occurs continuously and frequently, contact the local distributors for help.</li> </ul>
	A04	Pvs1OverVoltFault		<ul> <li>Reconfiguration of PV strings, reduce the PV number of a PV string to reducing inverter PV input voltage.</li> </ul>
	A05	PVs2OverVoltFault	PV Voltage over, beyond the reasonable range.	Contact local distributors for suggestion.
PV Fault	A16	PVs1ReverseFault		Check whether PV(+) and PV(-) co
	A17	PVs1ReverseFault	PV(+) and PV(-) reverse d Connection	nnection reversed or not.  If reversed, make correction.
	A33	Pv1AbnormalFault	Compared with previous voltage and other PV voltages, this PV voltages	<ul> <li>Check if PV modules are partially b locked or cells are damaged.</li> <li>Check if PV cables and terminals b</li> </ul>
	A34	Pv2AbnormalFault	uddenly becomes higher or lower.	roken or loose connection, then rep air it.
	E01	Pv1HwOverCurrFau It	PV current over, triggere	Power off, then restart     If fault still occurs continuously and
	E02	Pvs2HwOverCurrFa ult	d the hardware protectio n circuit	frequently, please ask help for local distributors.
DC Fault	E13	PVs1SwOverCurrFa ult		<ul> <li>Power off, then restart</li> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>
	E14	PVs2SwOverCurrFa ult	PV current over, triggere d the software protection circuit	

Type of Fault	Code	Name	Description	Recommend Solution
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	E33	Boost1SelfCheckFa	PV boost circuit abnorm al when self checking	<ul> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>
	E34	Boost2SelfCheckFa ult		
	E45	BusHwOverVoltFaul t		
	E46	BusHwOverHalfVolt Fault		
	E47	BusSwOverVoltFaul t	Bus voltage over	
	E48	BusSwOverHalfVolt Fault		<ul><li>Power off, then restart.</li><li>If fault still occurs continuously and</li></ul>
DC Fault	E49	BusSwUnderVoltFa ult	Bus voltage under as ru nning	frequently, please ask help for local distributors.
	E50	BusUnbalancedFaul t	DC Bus voltage unbalan ced	
	F01	HwOverFault	Hardware detected that current over / BUS volta ge over	
	F02	InvHwOverCurrFaul t	Hardware detected that inverter current over	
	F03	InvROverCurrFault	R phase /Split phase L1 current over	
	F04	InvSOverCurrFault	S phase /Split phase L2 current over	
	F05	InvTOverCurrFault	T phase current over	Power off, then restart.
	F06	GridUnbalanCurrFa ult	3 phase current effectiv e value has big differenc e	If fault still occurs continuously and frequently, please ask help for local distributors.
	F07	DcInjOverCurrFault	DC injection current ove	

AC Fault	F08	AcOverLeakCurrFa ult	Ac side leakage current over	<ul> <li>Check if PV panels has good groun d insulation and ground wires are c onnected well ground is well, then r epair it.</li> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>
7.0 Tault	F09	PLLFault	The phase-locked loop i s operating abnormally, and it does not stably tr ack the grid voltage phase.	
	F10	GridRelay1Fault	It is detected that the rel ay group 1 cannot be op ened or closed normally.	<ul> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>

Type of Fault	Code	Name	Description	Recommend Solution
	E33	Boost1SelfCheckFa ult	PV boost circuit abnorm al when self checking	<ul> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local</li> </ul>
	E34	Boost2SelfCheckFa ult		distributors.
	E45	BusHwOverVoltFaul t		
	E46	BusHwOverHalfVolt Fault		
	E47	BusSwOverVoltFaul t	Bus voltage over	
	E48	BusSwOverHalfVolt Fault		<ul><li>Power off, then restart.</li><li>If fault still occurs continuously and</li></ul>
DC Fault	E49	BusSwUnderVoltFa ult	Bus voltage under as ru nning	frequently, please ask help for local distributors.
	E50	BusUnbalancedFaul t	DC Bus voltage unbalan ced	

	F01	HwOverFault	Hardware detected that current over / BUS volta ge over	
	F02	InvHwOverCurrFaul t	Hardware detected that inverter current over	
	F03	InvROverCurrFault	R phase /Split phase L1 current over	Power off, then restart.
	F04	InvSOverCurrFault	S phase /Split phase L2 current over	If fault still occurs continuously and frequently, please ask help for local distributors.
	F05	InvTOverCurrFault	T phase current over	
	F06	GridUnbalanCurrFa ult	3 phase current effectiv e value has big differenc e	
	F07	DcInjOverCurrFault	DC injection current ove	
	F08	AcOverLeakCurrFa ult	Ac side leakage current over	<ul> <li>Check if PV panels has good groun d insulation and ground wires are c onnected well ground is well, then r epair it.</li> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>
AC Fault	F09	PLLFault	The phase-locked loop i s operating abnormally, and it does not stably tr ack the grid voltage phase.	<ul> <li>Power off, then restart.</li> <li>If fault still occurs continuously and frequently, please ask help for local</li> </ul>
	F10	GridRelay1Fault	It is detected that the rel ay group 1 cannot be op ened or closed normally.	distributors.

Type of Fault	Code	Name	Description	Recommend Solution
System Fault	G48	ModelConflictFault		Power off, then restart. If fault still occurs continuously and frequently. please contact local

-,				distributors for software upgrade, version setting details.		
	101	InterFan1Warning		· Check if there is objects which blocking		
	102	ExterFanWarning	Fan abnormal	the fan rotation and remove it.  If those faults occurs continuously and frequently, please ask help for local distributors.		
	103	Fan3Warning				
	104	EnvirTemp1AdChanWaming		The warning does not affect the normal operation of the inverter. Power off, then restart. If fault still occurs continuously and		
	105	CoolingTemp2AdChanWaming	Some temperature sensors abnormal			
	106	Temp3AdChanWarning		frequently, please ask help for local distributors.		
Inner Warnning	107	ExtFlashComWarning	Communication between the master CPU and the Flash is abnormal.			
	108	EepromComWarning	Communication between the master CPU and the Eeprom is abnormal.	Power off, then restart.		
	109	SlaveComWarning	Communication between slaver CPU and master CPU is abnormal	<ul> <li>If fault still occurs continuously and frequently, please ask help for local distributors.</li> </ul>		
	I10	HmiComWarning	Communication between master CPU and HMI is abnormal			
	I11	FreqCalcConflictWarning	Frequency value abnormal			
	112	UnsetModel	Running model is not initial	Contact with local distributor.		
Outside Wamning	J01	MeterComWarning	Communication between inverter and meter is abnormal.	Check the meter model, and whether meter wiring and terminals are connected correctly, damaged or loose, it happens, make corrections.     Power off, then restart.     If fault still occurs continuously and frequently, please ask help for local distributors.		
	J02	MeterConnectWarning	Meter/CT wiring fault, or installation position fault.	Check whether the meter or CT wiring, installation position, and installation direction are wrong, and make corrections.     Power off, then restart.     If fault still occurs continuously and frequently, please ask help for local distributors.		

Type of Fault	Code	Name	Description	Recommend Solution		
Outside Warnning	J04	GndAbnormalWarning	Poor grounding or no grounding wire has been detected.	Check whether the ground wire of the inverter is properly connected and whether the ground impedance is over, and make corrections.     Power off, then restart.     If fault still occurs continuously and frequently, please ask help for local distributors.		
	J05	ParallelComWarning	Communication between master inverter and slaver ones abnormal in parallel mode.	Check whether the parallel communication line is damaged, the terminal is loose, the wiring hole position is correct, and make corrections.     Power off, then restart.     If fault still occurs continuously and frequently, please ask help for local distributors.		

# **Specifications**

PV Input Data	BNT070KT L	BNT075KT L	BNT080KT	BNT090KT L	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 Volta ge 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 MPP Tracker / No. of PV String	6/12					
Input Connector Type	MC4					

AC Output Data	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
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 /3F	+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%				
Efficiency	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
Max. Efficiency		98.	30%		98.	40%
Euro Efficiency			99.	00%		
Protection	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
PV Reverse Polarity Protection			Y	ES		
PV Insulation Resistance Detection			Y	ES		
AC Short Circuit Protection			Y	ES		
AC Over Current Protection			Y	ES		
AC Over Voltage Protection			Y	ES		
Anti-Islanding Protection			Y	ES		
Residual Current Detection			Y	ES		
Over Temperature Protection			Y	ES		
Integrated DC switch			Y	ES		
Surge Protection			Integrate	d (Type II)		
Smart IV Curve Scaning			Y	ES		
Quick Arc Fault Circuit Interrup⊠on			Opt	ional		
General Data	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
Dimensions (W x H x D, mm)			979 x 61	10 x 310		
Weight ( kg )		72			76	
Protection Degree			IP	55		
Enclosure Material			Alum	num		
Ambient Temperature Range (°C)			-25 t	o 60		
Humidity Range	0-100%					
Topology			Transfor	merless		
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 )			≤40	000		
Certifications and Standards	BNT070KTL	BNT075KTL	BNT080KTL	BNT090KTL	BNT100KTL	BNT110KTL
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, U	JL1741, EN62109		
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					

## **Documents / Resources**



<u>Afore BNT100KTL On Grid PV Inverter</u> [pdf] Instruction Manual BNT100KTL On Grid PV Inverter, BNT100KTL, On Grid PV Inverter, Grid PV Inverter, PV Inverter, Inverter

## References

## • User Manual

#### Manuals+, Privacy Policy