

BNT010KTL / BNT015KTL / BNT020KTL / BNT030KTL

INVERTER

TrIFASE

**Possibility of grid connection
(CEI-021)**



98.4% max. efficiency.

Parallel operation capability with up to 10 units Easy control via LED display and app

Easy Wi-Fi configuration via App

Super wide battery voltage range from 135-750 V. IP65 degree of protection.

Compact and elegant design with integrated die-casting technology.

Long-term efficient operation with advanced heat dissipation design.

Intelligent energy management with integrated BMS.

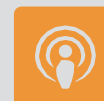
Up to 110% unbalanced load. AC output overload up to 125%.



ANTI-FLOW
Output current blocking function.



MAX. INPUT C/C
Maximum panel power 1.5 of the inverter power



PROTECTION
Smart Protections



SMART
Intelligent I-V curve scanning



CONFIGURATION
Simple via WIFI



MODBUS

GENERAL DATA	BNT010KTL	BNT015KTL	BNT020KTL	BNT030KTL
DIMENSIONS (H X W X D, MM)	510x370x192	510x370x192	535x370x192	712x427x232
WEIGHT (KG)	15	17	19	42
DEGREE OF PROTECTION	IP65	IP65	IP65	IP65
HOUSING MATERIAL	Aluminium	Aluminium	Aluminium	Aluminium
TEMPERATURE RANGE ENVIRONMENT (°C)	-25 a 60	-25 a 60	-25 a 60	-25 a 60
HUMIDITY RANGE	0-100%	0-100%	0-100%	0-100%
TOPOLOGY	Without transformer	Without transformer	Without transformer	Without transformer
COMMUNICATION INTERFACE	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet
COOLING CONCEPT	Conventional	Conventional	Conventional	Conventional
NOISE EMISSION (N DB)	<30	<40	<40	<51
NIGHT-TIME ENERGY CONSUMPTION (W)	<1	<1	<1	<1
MAXIMUM OPERATIONAL ALTITUDE (M)	4000	4000	4000	4000

THREE-PHASE INVERTER



FV INPUT DATA	BNT010KTL	BNT015KTL	BNT020KTL	BNT030KTL
MAX. DC POWER (W)	15000	22500	22500	45000
MAX. DC VOLTAGE (V)	1100	1100	1100	1100
INTER. VOLTAGE MPPT (V)	150-1000	150-1000	150-1000	200-1000
INTER. OF VOLTAGE AT FULL POWER (V)	500-850	500-850	500-850	500-850
NOM. INPUT VOLTAGE (V)	620	620	620	620
STARTING VOLTAGE (V)	150	150	150	200
MAX. INPUT CURRENT (A)	15 x 2	20 x 2	32 x 2	38 x 3
MAX. SHORT CURRENT (A)	25 x 2	30 x 2	48 x 2	48 x 3
N. MPPT / NO. OF FV STRINGS	2/2	2/2	2/4	2/5
INPUT CONNECTOR TYPE	MC4	MC4	MC4	MC4
AC OUTPUT DATA	BNT010KTL	BNT015KTL	BNT020KTL	BNT030KTL
MAX. OUTPUT POWER (W)	11000	16500	22000	33000
NOMINAL OUTPUT POWER (W)	10000	15000	20000	30000
MAX. OUTPUT CURRENT (A)	17	27	32	48
NOMINAL OUTPUT VOLTAGE (V)	3P+N+PE / 3P + PE 230/400			
MAINS VOLTAGE RANGE	260Vac-519Vac (according to local standard)			
NOMINAL OUTPUT FREQUENCY (HZ)	50/60			
NETWORK FREQUENCY	45-55Hz/54-66Hz (according to local standard)			
OUTPUT POWER FACTOR	1 default (adjustable from 0.8 early to 0.8 late)			
THD OUTPUT CURRENT	<3%			
EFFICIENCY	BNT010KTL	BNT015KTL	BNT020KTL	BNT030KTL
MAXIMUM EFFICIENCY	98.70%	98.70%	98.75%	98.50%
EURO EFFICIENCY	98.23%	98.23%	99.35%	99.10%
AC OUTPUT DATA	BNT010KTL	BNT015KTL	BNT020KTL	BNT030KTL
PROTECTION FROM POLARITY REVERSAL FV	YES			
DETECTIVE OF FV INSULATION RESISTANCE	YES			
AC SHORT-CIRCUIT PROTECTION	YES			
AC OVERCURRENT PROTECTION	YES			
AC OVERVOLTAGE PROTECTION	YES			
ANTI-ISLANDING PROTECTION	YES			
RESIDUAL CURRENT DETECTION	YES			
OVERTEMPERATURE PROTECTION	YES			
INTEGRATED DC SWITCH	YES			
OVERVOLTAGE PROTECTION	Integrated (Type III)			
INTELLIGENT CURVE SCAN IV	YES			

BNT040KTL / BNT050KTL / BNT060KTL

INVERTER

TrIFASE

**Possibility of grid connection
(CEI-021)**



Storage-less photovoltaic inverters are a key component in solar installations dedicated exclusively to conversion and immediate feeding of the energy produced into the grid. These devices are designed to transform the direct current (DC) generated by solar panels into alternating current (AC), compatible with domestic electrical infrastructure and the energy distribution grid.

FEATURES

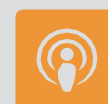
- Wi-Fi
- Compact design
- Multiple intelligent protections
- Compatible with double-sided modules
- String-level monitoring



ANTI-FLOW
Output current blocking function.



MAX. INPUT C/C
Maximum panel power 1.5 of the inverter power



PROTECTION
Smart Protections



SMART
Intelligent I-V curve scanning



CONFIGURATION
Simple via WiFi



MODBUS

GENERAL DATA	BNT040KTL	BNT050KTL	BNT060KTL
DIMENSIONS (H X W X D, MM)	712x427x232	712x427x232	712x427x232
WEIGHT (KG)	43	45	45
DEGREE OF PROTECTION	IP65	IP65	IP65
HOUSING MATERIAL	Aluminium	Aluminium	Aluminium
TEMPERATURE RANGE ENVIRONMENT (°C)	-25 a 60	-25 a 60	-25 a 60
HUMIDITY RANGE	0-100%	0-100%	0-100%
TOPOLOGY	Without transformer	Without transformer	Without transformer
COMMUNICATION INTERFACE	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet
COOLING CONCEPT	Conventional	Conventional	Conventional
NOISE EMISSION (N DB)	<51	<55	<55
NIGHT-TIME ENERGY CONSUMPTION (W)	<1	<1	<1
MAXIMUM OPERATING ALTITUDE (M)	4000	4000	4000

THREE-PHASE INVERTER

FV INPUT DATA	BNT040KTL	BNT050KTL	BNT060KTL
MAX. DC POWER (W)	60000	75000	90000
MAX. DC VOLTAGE (V)	1100	1100	1100
INTER. VOLTAGE MPPT (V)	200-1000	200-1000	200-1000
INTER. OF VOLTAGE AT FULL POWER (V)	500-850	500-850	500-850
NOM. INPUT VOLTAGE (V)	620	620	620
STARTING VOLTAGE (V)	200	200	200
MAX. INPUT CURRENT (A)	38 x 3	40 x 3	38 x 4
MAX. SHORT CURRENT (A)	48 x 3	48 x 3	48 x 4
N. MPPT / NO. OF FV STRINGS	3/6	3/7	4/8
INPUT CONNECTOR TYPE	MC4	MC4	MC4
AC OUTPUT DATA	BNT040KTL	BNT050KTL	BNT060KTL
MAX. OUTPUT POWER (W)	44000	55000	66000
NOMINAL OUTPUT POWER (W)	40000	50000	60000
MAX. OUTPUT CURRENT (A)	65	80	96
NOMINAL OUTPUT VOLTAGE (V)	3P+N+PE / 3P + PE 230/400		
MAINS VOLTAGE RANGE	260Vac-519Vac (according to local standard)		
NOMINAL OUTPUT FREQUENCY (HZ)	50/60		
NETWORK FREQUENCY	45-55Hz/54-66Hz (according to local standard)		
OUTPUT POWER FACTOR	1 default (adjustable from 0.8 early to 0.8 late)		
THD OUTPUT CURRENT	<3%		
EFFICIENCY	BNT040KTL	BNT050KTL	BNT060KTL
MAXIMUM EFFICIENCY	98.65%	98.80%	99.00%
EURO EFFICIENCY	98.25%	98.45%	98.50%
AC OUTPUT DATA	BNT040KTL	BNT050KTL	BNT060KTL
PROTECTION FROM POLARITY REVERSAL FV	YES		
DETECTIVE OF FV INSULATION RESISTANCE	YES		
AC SHORT-CIRCUIT PROTECTION	YES		
AC OVERCURRENT PROTECTION	YES		
AC OVERVOLTAGE PROTECTION	YES		
ANTI-ISLANDING PROTECTION	YES		
RESIDUAL CURRENT DETECTION	YES		
OVERTEMPERATURE PROTECTION	YES		
INTEGRATED DC SWITCH	YES		
OVERVOLTAGE PROTECTION	Integrated (Type III)		
INTELLIGENT CURVE SCAN IV	YES		