

Three Phase PV String Inverter

17-36 kW Delta Voltage Series



The Afore Three-phase string inverters Low-voltage Series are designed for commercial and power plant PV system applications, rating from 17kW to 36kW. 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 APP.

Max.
20A

MAX. 20Adc
String Current Up To 20A

Max.
1.5

PV OVERSIZE
Max. 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
- IP 68 Cooling Fan
- Type II DC & AC lightning protection
- AC output 1.1x continuous operation

■ Technical Data	BNT017KTA	BNT020KTA	BNT025KTA	BNT030KTA	BNT036KTA
PV Input Data					
Max. DC Power (kW)	25.5	30	37.5	45	54
Max. DC Voltage (V)	750				
MPPT Voltage Range (V)	200- 700				
MPPT Full Power Voltage Range (V)	310- 600	320- 600	300- 600	300- 600	300- 600
Rated Input Voltage (V)	400				
Start-up Voltage (V)	150	200			
Max. Input Current (A)	38 x 2	38 x 3	40 x 3	38 x 4	38 x 4
Max. Short Current (A)	48 x 2	48 x 3	48 x 3	48 x 4	48 x 4
No. of MPP Tracker / No. of PV String	2 / 5	3 / 6	3 / 7	4 / 8	4 / 8
Input Connector Type	MC4				
AC Output Data					
Max. Output Power (kVA)	17	20	25	30	36
Nominal Output Power (kW)	17	20	25	30	36
Max. Output Current (A)	48	60	80	96	96
Nominal Output Voltage (V)	3P+PE/3P 127/220				
Grid Voltage Range	180-260Vac (According to local standard)				
Nominal Output Frequency (Hz)	50/60				
Grid Frequency Range	45-55 / 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					
Max. Efficiency	98.40%				
Euro Efficiency	98.00%	98.10%			
Protection					
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 II)				
General Data					
Protection Degree	IP66				
Enclosure Material	Aluminum				
Ambient Temperature Range (°C)	-25 - +60				
Humidity Range	0-100 %				
Topology	Transformerless				
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)				
Cooling Concept	Intelligent Fan Cooling				
Night Power Consumption (W)	<1				
Max. Operation Altitude (m)	4000				
Certifications and Standards					
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-4, EN61000-3-11, EN61000-3-12				
Safety Standard	UL1741, EN62109				
Grid-connection	IEEE1547, CSA C22, IEC61727				