

PV Input Data	BNT030KTL	BNT036KTL	BNT040KTL
Max. DC Power (W)	45000	54000	60000
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)		200	
Max. Input Current (A)		38 x 3	
Max. Short Current (A)		48 x 3	
No. of MPP Tracker / No. of PV String		3/6	
Input Connector Type		MC4	
AC Output Data	BNT030KTL	BNT036KTL	BNT040KTL
Max. Output Power (W)	33000	39600	44000
Nominal Output Power (W)	30000	36000	40000
Max. Output Current (A)	48	60	65
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/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	BNT030KTL	BNT036KTL	BNT040KTL
Max. Efficiency	98.50%	98.65%	98.65%
Euro Efficiency	98.10%	98.20%	98.25%
Protection	BNT030KTL	BNT036KTL	BNT040KTL
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)		
Smart IV Curve Scanning	YES		
Quick Arc Fault Circuit Interruption	Optional		
General Data	BNT030KTL	BNT036KTL	BNT040KTL
Dimensions (H x W x D, mm)		712 x 427 x 232	
Weight (kg)	42		43
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	Intelligent Fan Cooling		
Noise Emission (db)	<51		
Night Power Consumption (W)	<1		
Max. Operation Altitude (m)	≤4000		
Certifications and Standards	BNT030KTL	BNT036KTL	BNT040KTL
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		