

PV Input Data	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
Max. DC Power (W)	54000	60000	75000	90000
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 x3		40 x3	38 x4
Max. Short Current (A)	48 x3		48 x3	48 x4
No. of MPP Tracker / No. of PV String	3/6		3/7	4/8
Input Connector Type	MC4			
AC Output Data	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
Max. Output Power (VA)	36000	40000	50000	60000
Nominal Output Power (W)	36000	40000	50000	60000
Max. Output Current (A)	60	65	80	96
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	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
Max. Efficiency	98.65%	98.65%	98.80%	99.00%
Euro Efficiency	98.20%	98.25%	98.45%	98.50%
Protection	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
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	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
Dimensions (W x H x D, mm)	710 x 470 x 236			
Weight (kg)	44			51
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		<55	
Night Power Consumption (W)	<1			
Max. Operation Altitude (m)	≤4000			
Certifications and Standards	BNT036KTL	BNT040KTL	BNT050KTL	BNT060KTL
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			