

<b>PV Input Data</b>	<b>BNT050KTL</b>
Max. DC Power ( W )	75000
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 )	40 x 3
Max. Short Current ( A )	48 x 3
No. of MPP Tracker / No. of PV String	3/7
Input Connector Type	MC4
<b>AC Output Data</b>	<b>BNT050KTL</b>
Max. Output Power ( W )	55000
Nominal Output Power ( W )	50000
Max. Output Current ( A )	80
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%
<b>Efficiency</b>	<b>BNT050KTL</b>
Max. Efficiency	98.80%
Euro Efficiency	98.45%
<b>Protection</b>	<b>BNT050KTL</b>
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
<b>General Data</b>	<b>BNT050KTL</b>
Dimensions (H x W x D, mm)	712 x 427 x 232
Weight ( kg )	45
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 )	<55
Night Power Consumption ( W )	<1
Max. Operation Altitude ( m )	≤4000
<b>Certifications and Standards</b>	<b>BNT050KTL</b>
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