

Giga

PV Inverter

BNI 40-60KTL3-X LV



- Maximum efficiency 98.8%, European efficiency 98.4%
- Maximum DC input voltage 1100V
- String current 12.5A, suitable for bifacial solar modules
- AC & DC type II SPD, one-click diagnosis
- OLED display screen and touch buttons
- Flexible monitoring method-USB/RS485



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Product Specifications

Datasheet	BNI 40KTL3-X LV	BNI 50KTL3-X LV	BNI 60KTL3-X LV
Input data (DC)			
Max. recommended PV power	52000W	65000W	78000W
Max.DC voltage	1100V		
Start voltage	250V		
Rated voltage	600V		
MPP voltage range	200V ~ 1000V		
No. of MPP trackers	3		
Max. No. of PV strings per MPP tracker	4 / 4 / 3		
Max. input current per MPP tracker	50A / 50A / 37.5A		
Max. short-circuit current per MPP tracker	55A / 55A / 55A		
Output data (AC)			
Rated AC output power	40000W	50000W	60000W
Max. AC apparent power	44400VA	55500VA	66600VA
Rated AC voltage	380V		
AC grid frequency	60Hz		
Max. output current	67.5A	84.4A	96.6A
AC grid connection type	3W / N / PE		
Efficiency			
Max. efficiency	98.8%		
European efficiency	98.35%	98.4%	98.4%
Protection Devices			
DC reverse polarity protection	Yes		
DC switch	Yes		
DC surge protection	Type II		
Insulation resistance monitoring	Yes		
AC surge protection	Type II		
AC short-circuit protection	Yes		
Ground fault monitoring	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Residual-current monitoring unit	Yes		
General Data			
Dimensions (W / H / D)	680 x 508 x 281 mm		
Weight	52kg		
Nighttime power consumption	<1W		
Topology	Transformerless		
Cooling	Smart air cooling		
Protection degree	IP65		
DC connection	MC4		
Display and Communication			
Display	OLED		
RS485 / USB	Yes		
Wi-Fi	Optional		
Warranty : 5 years / 10 years	Yes / Optional		
Standards Compliant	IEC 60529, IEC/EN 62109-1, IEC/EN 62109-2, EN 61000-3, EN 61000-6, CNS 15382, CNS 15426-1, CNS 15426-2, CNS 14674-2, CNS 14674-4, VPC		