

# Giga



# PV Inverter

BNI 50-60KTL3-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 50KTL3-X LV                                                                                                                       | BNI 60KTL3-X LV |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Input data (DC)                            |                                                                                                                                       |                 |
| Max. recommended PV power                  | 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                      | 50000W                                                                                                                                | 60000W          |
| Max. AC apparent power                     | 55500VA                                                                                                                               | 66600VA         |
| Rated AC voltage                           | 380V                                                                                                                                  |                 |
| AC grid frequency                          | 60Hz                                                                                                                                  |                 |
| Max. output current                        | 84.4A                                                                                                                                 | 96.6A           |
| AC grid connection type                    | 3W / N / PE                                                                                                                           |                 |
| Efficiency                                 |                                                                                                                                       |                 |
| Max. efficiency                            | 98.8%                                                                                                                                 |                 |
| European efficiency                        | 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 |                 |