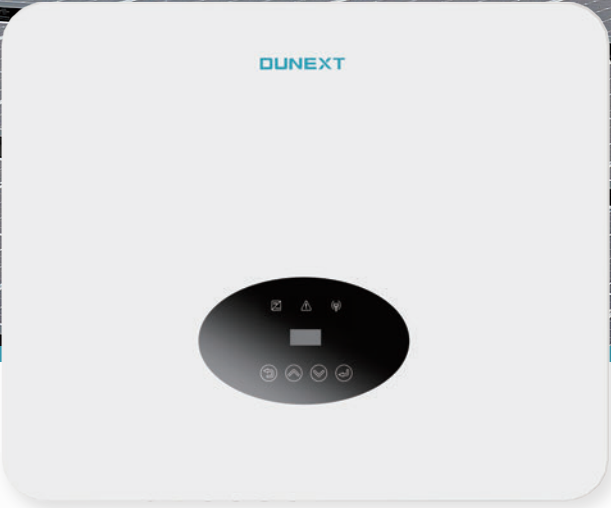


# THREE PHASE ON-GRID INVERTER



DN3 Series (30–50KTL)

- Compatible with 600W+ PV modules
- 150% DC input oversizing & 110% AC overloading
- Remote firmware upgrade
- Optional AFCI & smart PID recovery function
- Low start-up voltage at 200V
- Type II SPD for both DC and AC

## Three Phase On-Grid Inverter

DUNEXT

| Model                                    | DN3-30KTL                                                                                                | DN3-36KTL    | DN3-40KTL         | DN3-50KTL         |
|------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------------|
| PV Input                                 |                                                                                                          |              |                   |                   |
| Max. Recommended PV Power [Wp]           | 45000                                                                                                    | 54000        | 60000             | 75000             |
| Max. PV Input Voltage [V]                | 1100                                                                                                     |              |                   |                   |
| MPPT Voltage Range [V]                   | 180 ~ 1000                                                                                               |              |                   |                   |
| Rated Input Voltage [V]                  | 600                                                                                                      |              |                   |                   |
| Start-up Voltage [V]                     | 200                                                                                                      |              |                   |                   |
| No. of MPP Trackers                      | 3                                                                                                        | 3            | 4                 | 4                 |
| No. of Input Strings per Tracker         | 2 / 2 / 2                                                                                                | 2 / 2 / 2    | 2 / 2 / 2 / 2     | 2 / 2 / 2 / 2     |
| Max. PV Input Current [A]                | 40 / 40 / 40                                                                                             | 40 / 40 / 40 | 40 / 40 / 40 / 40 | 40 / 40 / 40 / 40 |
| Max. Short-circuit Current per MPPT [A]  | 50 / 50 / 50                                                                                             | 50 / 50 / 50 | 50 / 50 / 50 / 50 | 50 / 50 / 50 / 50 |
| AC Output                                |                                                                                                          |              |                   |                   |
| Rated AC Power [W]                       | 30000                                                                                                    | 36000        | 40000             | 50000             |
| Max. Apparent Power [VA]                 | 33000                                                                                                    | 39600        | 44000             | 55000             |
| Max. AC Current [A]                      | 50                                                                                                       | 60           | 66.6              | 83.3              |
| Rated AC Voltage [V]                     | 3 / N / PE, 220 / 380, 230 / 400                                                                         |              |                   |                   |
| Grid Frequency [Hz]                      | 50 / 60                                                                                                  |              |                   |                   |
| Adjustable Power Factor [cos ϕ]          | 0.8 leading ... 0.8 lagging                                                                              |              |                   |                   |
| Output THDi (@Rated Output)              | < 3%                                                                                                     |              |                   |                   |
| Efficiency                               |                                                                                                          |              |                   |                   |
| Max. Efficiency                          | 98.6%                                                                                                    | 98.7%        | 98.8%             | 98.8%             |
| European Efficiency                      | 97.8%                                                                                                    | 98.0%        | 98.0%             | 98.0%             |
| Protection                               |                                                                                                          |              |                   |                   |
| DC Insulation Monitoring                 | Yes                                                                                                      |              |                   |                   |
| Input Reverse Polarity Protection        | Yes                                                                                                      |              |                   |                   |
| Anti-island Protection                   | Yes                                                                                                      |              |                   |                   |
| Residual Current Monitoring              | Yes                                                                                                      |              |                   |                   |
| AC Overcurrent Protection                | Yes                                                                                                      |              |                   |                   |
| AC Short-circuit Protection              | Yes                                                                                                      |              |                   |                   |
| DC Surge Protection                      | Yes (Type II)                                                                                            |              |                   |                   |
| AC Surge Protection                      | Yes (Type II)                                                                                            |              |                   |                   |
| AFCI Protection                          | Optional                                                                                                 |              |                   |                   |
| PID function                             | Optional                                                                                                 |              |                   |                   |
| DC Switch                                | Yes                                                                                                      |              |                   |                   |
| General Data                             |                                                                                                          |              |                   |                   |
| Dimension (W * H * D) [mm]               | 585 * 480 * 220                                                                                          |              |                   |                   |
| Weight [kg]                              | 37                                                                                                       |              |                   |                   |
| Display                                  | LED + OLED                                                                                               |              |                   |                   |
| Communication                            | RS485 and USB (Standard), Wifi (Standard), 4G or Ethernet (Optional)                                     |              |                   |                   |
| Ambient Temperature Range [°C]           | -25~+60                                                                                                  |              |                   |                   |
| Relative Humidity                        | 0 ~ 100%                                                                                                 |              |                   |                   |
| Operating Altitude [m]                   | ≤ 2000                                                                                                   |              |                   |                   |
| Standby Self Consumption without PID [W] | < 1                                                                                                      |              |                   |                   |
| Topology                                 | Transformerless                                                                                          |              |                   |                   |
| Cooling                                  | Air Cooling                                                                                              |              |                   |                   |
| Degree of Protection                     | IP65                                                                                                     |              |                   |                   |
| Certifications & Standards               |                                                                                                          |              |                   |                   |
| Grid Regulation                          | NB/T32004,ORDINANCE140,VDE4105, VDE0126, VDE-AR-N 4105, UNE217002,EN 50549-1, EN 62920                   |              |                   |                   |
| Safety Regulation                        | IEC 62109-1, IEC 62109-2                                                                                 |              |                   |                   |
| EMC                                      | EN/IEC 61000-6-1, EN IEC 61000-6-4, EN/IEC 61000-6-3, EN IEC 61000-6-2, EN IEC 61000-3-11, EN 61000-3-12 |              |                   |                   |