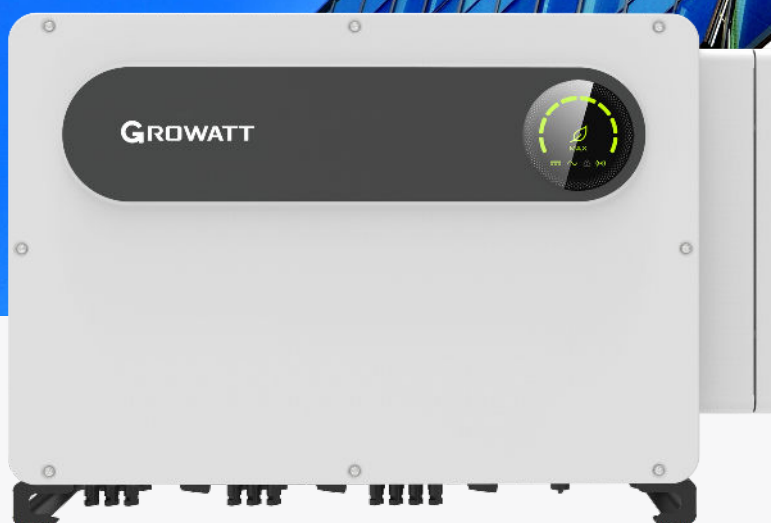
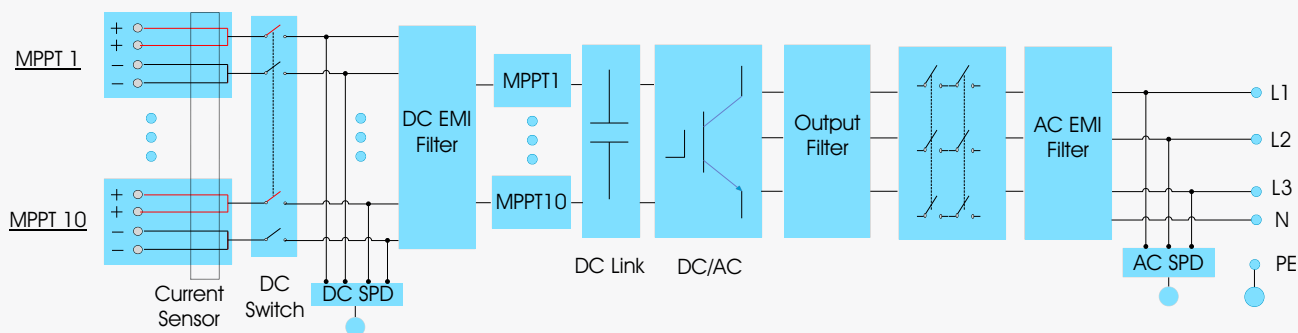


# MAX 100~125KTL3-X LV

- 10 MPPTs fusefree design
- Smart I/V scan and diagnosis
- Intelligent string monitoring
- AC&DC type II SPD
- IP66 and C5 protection



## Topology Diagram



## Primary Specification

| Datasheet                                                                                                                                     | MAX 100KTL3-X LV |  | MAX 110KTL3-X LV |  | MAX 120KTL3-X LV                            |  | MAX 125KTL3-X LV |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|------------------|--|---------------------------------------------|--|------------------|--|
| Input data (DC)                                                                                                                               |                  |  |                  |  |                                             |  |                  |  |
| Max. DC voltage                                                                                                                               |                  |  |                  |  | 1100V                                       |  |                  |  |
| Start voltage                                                                                                                                 |                  |  |                  |  | 195V                                        |  |                  |  |
| Nominal voltage                                                                                                                               |                  |  |                  |  | 600V                                        |  |                  |  |
| MPP voltage range                                                                                                                             |                  |  |                  |  | 180V-1000V                                  |  |                  |  |
| No. of MPP trackers                                                                                                                           |                  |  |                  |  | 10                                          |  |                  |  |
| No. of PV strings per MPP tracker                                                                                                             |                  |  |                  |  | 2                                           |  |                  |  |
| Max. input current per MPP tracker                                                                                                            |                  |  |                  |  | 32A                                         |  |                  |  |
| Max. short-circuit current per MPP tracker                                                                                                    |                  |  |                  |  | 40A                                         |  |                  |  |
| Output data (AC)                                                                                                                              |                  |  |                  |  |                                             |  |                  |  |
| AC nominal power                                                                                                                              | 100000W          |  | 110000W          |  | 120000W                                     |  | 125000W          |  |
| Max. AC apparent power                                                                                                                        | 110000VA         |  | 121000VA         |  | 132000VA                                    |  | 137500VA         |  |
| Nominal AC voltage(range*)                                                                                                                    |                  |  |                  |  | 230V/400V(340-440VAC)                       |  |                  |  |
| AC grid frequency (range*)                                                                                                                    |                  |  |                  |  | 50/60 Hz(45–55Hz/55-65 Hz)                  |  |                  |  |
| Max. output current                                                                                                                           | 158.8A           |  | 174.6A           |  | 190.5A                                      |  | 198.5A           |  |
| Adjustable power factor                                                                                                                       |                  |  |                  |  | 0.8leading ...0.8lagging                    |  |                  |  |
| THDI                                                                                                                                          |                  |  |                  |  | <3%                                         |  |                  |  |
| AC grid connection type                                                                                                                       |                  |  |                  |  | 3W/N/PE                                     |  |                  |  |
| Efficiency                                                                                                                                    |                  |  |                  |  |                                             |  |                  |  |
| Max.efficiency                                                                                                                                |                  |  |                  |  | 98.8%                                       |  |                  |  |
| European efficiency                                                                                                                           | 98.4%            |  | 98.5%            |  | 98.5%                                       |  | 98.5%            |  |
| MPPT efficiency                                                                                                                               |                  |  |                  |  | 99.9%                                       |  |                  |  |
| Protection devices                                                                                                                            |                  |  |                  |  |                                             |  |                  |  |
| DC reverse polarity protection                                                                                                                |                  |  |                  |  | Yes                                         |  |                  |  |
| DC switch                                                                                                                                     |                  |  |                  |  | Yes                                         |  |                  |  |
| AC/DC surge protection                                                                                                                        |                  |  |                  |  | Type II / Type II                           |  |                  |  |
| Insulation resistance monitoring                                                                                                              |                  |  |                  |  | Yes                                         |  |                  |  |
| AC short-circuit protection                                                                                                                   |                  |  |                  |  | Yes                                         |  |                  |  |
| Ground fault monitoring                                                                                                                       |                  |  |                  |  | Yes                                         |  |                  |  |
| String detection                                                                                                                              |                  |  |                  |  | Yes                                         |  |                  |  |
| Anti PID function                                                                                                                             |                  |  |                  |  | Opt                                         |  |                  |  |
| Arc fault detection (AFCI)                                                                                                                    |                  |  |                  |  | Opt                                         |  |                  |  |
| General data                                                                                                                                  |                  |  |                  |  |                                             |  |                  |  |
| Dimensions (W / H / D)                                                                                                                        |                  |  |                  |  | 970/640/345mm                               |  |                  |  |
| Weight                                                                                                                                        |                  |  |                  |  | 84kg                                        |  |                  |  |
| Operating temperature range                                                                                                                   |                  |  |                  |  | –30°C ... +60°C                             |  |                  |  |
| Nighttime power consumption                                                                                                                   |                  |  |                  |  | < 1W                                        |  |                  |  |
| Topology                                                                                                                                      |                  |  |                  |  | Transformerless                             |  |                  |  |
| Cooling                                                                                                                                       |                  |  |                  |  | Smart Cooling                               |  |                  |  |
| Protection degree                                                                                                                             |                  |  |                  |  | IP66                                        |  |                  |  |
| Relative humidity                                                                                                                             |                  |  |                  |  | 0~100%                                      |  |                  |  |
| Altitude                                                                                                                                      |                  |  |                  |  | 4000m                                       |  |                  |  |
| DC connection                                                                                                                                 |                  |  |                  |  | H4/MC4 (Max.6mm²)                           |  |                  |  |
| AC connection                                                                                                                                 |                  |  |                  |  | OT Terminal (Max. 240mm²)                   |  |                  |  |
| Display                                                                                                                                       |                  |  |                  |  | LED/WIFI+APP                                |  |                  |  |
| Interfaces: RS485 / USB /PLC/GPRS/4G/WIFI                                                                                                     |                  |  |                  |  | Yes/Yes/Optional/Optional/Optional/Optional |  |                  |  |
| Warranty: 5 years / 10 years                                                                                                                  |                  |  |                  |  | Yes /Optional                               |  |                  |  |
| CE,IEC62116, IEC61727, CQC, VDE0126, VFR2019, EN50549-1/2, C10/C11, UNE206007, G99<br>CEI 0-21/0-16, N4105&N4110, UNE206006,MEA, PEA, KSC8565 |                  |  |                  |  |                                             |  |                  |  |

\* The AC voltage range and frequency range may vary depending on specific country grid standard.  
All specifications are subject to change without notice.