

## GRID-TIED INVERTER

Single Phase: GT1-2K5/3K/3K3/3K6/4K/5K/6K D2

The LIVOLTEK GT1 2.5-6K D2 series of Grid-tied inverters features a modern design tailored for residential applications. Its compact size and dual Maximum Power Point Trackers (MPPTs) make it suitable for complex installation environments. The inverters support a maximum input current of up to 16A per string, ensuring compatibility with large 182+ watt PV modules. Additionally, they are equipped with an integrated Arc Fault Circuit Interrupter (AFCI) for DC arc fault protection, which enhances safety. Our interactive Wi-Fi monitoring, accessible via our App or web platform, enables smart remote supervision and maintenance, making your solar energy experience effective and efficient.

### Product Benefits

-  DC input 16A per string
-  Integrated arc fault circuit interrupter (optional)
-  Lower startup voltage & 2 MPP trackers
-  150% oversizing and 110% overloading
-  24/7 monitoring and maintenance
-  Plug-and-play design for quick installation



## GRID-TIED INVERTER

Single Phase: GT1-2K5/3K/3K3/3K6/4K/5K/6K D2

INVERTER

| Model                               | GT1-2K5D2   | GT1-3KD2 | GT1-3K3D2 | GT1-3K6D2 | GT1-4KD2 | GT1-5KD2C | GT1-5KD2  | GT1-6KD2 |
|-------------------------------------|---|----------|-----------|-----------|----------|-----------|-----------|----------|
| <b>PV Input</b>                     |   |          |           |           |          |           |           |          |
| Max. DC Input Power                 | 3750Wp  | 4500Wp   | 4950Wp    | 5400Wp    | 6000Wp   | 7500Wp    | 7500Wp    | 9000Wp   |
| Max. DC Input Voltage               | 600V  |          |           |           |          |           |           |          |
| Min PV Input Voltage                | 70V   |          |           |           |          |           |           |          |
| Start-up DC Input Voltage           | 90V   |          |           |           |          |           |           |          |
| Nominal DC Input Voltage            | 360V  |          |           |           |          |           |           |          |
| MPPT voltage range                  | 70 - 550V   |          |           |           |          |           |           |          |
| Max. PV Current                     | 16A + 16A   |          |           |           |          |           |           |          |
| Max. Short Circuit Current          | 20A + 20A   |          |           |           |          |           |           |          |
| No. of MPPTs/Strings per MPPT       | 2 / 1   |          |           |           |          |           |           |          |
| <b>AC Output</b>                    |   |          |           |           |          |           |           |          |
| Nominal AC Power                    | 2500W   | 3000W    | 3300W     | 3600W     | 4000W    | 5000W     | 5000W     | 6000W    |
| Max. Apparent Power                 | 2750VA  | 3300VA   | 3630VA    | 3690VA[1] | 4400VA   | 5000VA    | 5500VA[3] | 6600VA   |
| Rated AC Grid Output Current        | 11.4A   | 13.6A    | 15A       | 16.3A     | 18.2A    | 22.7A     | 22.7A     | 27.3A    |
| Max. AC Output Current              | 12.5A   | 15A      | 16.5A     | 18A[2]    | 20A      | 22.7A     | 25A[4]    | 30A      |
| Rated AC Grid Voltage               | 220V / 230V / 240V, L+N+PE                                |          |           |           |          |           |           |          |
| AC Grid Voltage Range               | 154V - 290V (Adjustable)                                  |          |           |           |          |           |           |          |
| Rated Grid Frequency                | 50Hz / 60Hz   |          |           |           |          |           |           |          |
| Grid Frequency Range                | 45Hz - 55Hz / 55Hz - 65Hz (Adjustable)                    |          |           |           |          |           |           |          |
| Power Factor                        | > 0.99 Rated Power (Adjustable 0.8 Leading - 0.8 Lagging) |          |           |           |          |           |           |          |
| THDi                                | < 3% at rated power                                       |          |           |           |          |           |           |          |
| <b>Efficiency</b>                   |   |          |           |           |          |           |           |          |
| Max. Efficiency                     | 97.70%  | 97.70%   | 97.70%    | 97.70%    | 97.70%   | 97.70%    | 97.70%    | 97.70%   |
| Euro. Efficiency                    | 96.50%  | 96.50%   | 96.50%    | 96.50%    | 97.00%   | 97.00%    | 97.00%    | 97.00%   |
| MPPT Efficiency                     | > 99%   |          |           |           |          |           |           |          |
| <b>Protection</b>                   |   |          |           |           |          |           |           |          |
| Surge Arrester                      | Type II   |          |           |           |          |           |           |          |
| Over Current Protection             | Support   |          |           |           |          |           |           |          |
| AC Short Circuit Protection         | Support   |          |           |           |          |           |           |          |
| Over Voltage Protection             | Support   |          |           |           |          |           |           |          |
| Anti-islanding Protection           | Support   |          |           |           |          |           |           |          |
| Ground Fault Monitoring             | Support   |          |           |           |          |           |           |          |
| Residual Current Monitoring Unit    | Support   |          |           |           |          |           |           |          |
| DC Reverse Polarity Protection      | Support   |          |           |           |          |           |           |          |
| AC Auxiliary Power Supply (APS)     | Optional  |          |           |           |          |           |           |          |
| Anti-arc Protection                 | Optional  |          |           |           |          |           |           |          |
| <b>General Data</b>                 |   |          |           |           |          |           |           |          |
| Dimension (W*H*D)                   | 368*325*150 mm  |          |           |           |          |           |           |          |
| Weight                              | 12kg  |          |           |           |          |           |           |          |
| Protection Degree                   | IP65  |          |           |           |          |           |           |          |
| Cooling                             | Natural Cooling   |          |           |           |          |           |           |          |
| Operating Temperature Range         | -30°C to +60°C (Derating at 45°C)                         |          |           |           |          |           |           |          |
| Display                             | LED + APP   |          |           |           |          |           |           |          |
| Communication                       | RS485 (Meter), Wi-Fi                                      |          |           |           |          |           |           |          |
| Topology                            | Transformerless   |          |           |           |          |           |           |          |
| <b>Certifications and Standards</b> |   |          |           |           |          |           |           |          |
| Grid Regulation                     | IEC61727, IEC62116, ORDINANCE No. 140, EN50549            |          |           |           |          |           |           |          |
| Safety/EMC Standard                 | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4              |          |           |           |          |           |           |          |

Remarks: [1]: 3690(3680W for G98); [2]: 18(16.7A for G98); [3]: 5500(4999W for AS4777); [4]: 25(22.7A for AS4777);