

# 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.

## Features

- 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



# Technical Specification

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	70V - 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	3300W	3630VA	3690VA <sup>[1]</sup>	4400VA	5000VA	5500VA <sup>[3]</sup>	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 <sup>[2]</sup>	20A	22.7A	25A <sup>[4]</sup>	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);