

Grid-tied Inverter

Single Phase: GT1-2.5K/3K/3.3K/3.6K/4K/5K/6KD2

The LIVOLTEK GT1 2.5-6KD2 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



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INVERTER

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Model	GT1-2K5D2	GT1-3KD2	GT1-3KD3D	GT1-3KD6D2	GT1-4KD2	GT1-5KD2C	GT1-5KD2	GT1-6KD2
PV Input								
Max. DC Input Power	3750 Wp	4500 Wp	4950 Wp	5400 Wp	6000 Wp	7500 Wp	7500 Wp	9000 Wp
Max. DC Input Voltage	600 V							
Min PV Input Voltage	70 V							
Start-up DC Input Voltage	90 V							
Nominal DC Input Voltage	360 V							
MPPT voltage range	70-550 V							
Max. PV Current	16 A + 16 A							
Max. Short Circuit Current	20 A + 20 A							
No. of MPPTs/Strings per MPPT	2/1							
AC Output								
Nominal AC Power	2500 W	3000 W	3300 W	3600 W	4000 W	5000 W	5000 W	6000 W
Max. Apparent Power	2750 VA	3300 W	3630 VA	3690 VA[1]	4400 VA	5000 VA	5500 VA[3]	6600 VA
Rated AC Grid Output Current	11.4 A	13.6 A	15 A	16.3 A	18.2 A	22.7 A	22.7 A	27.3 A
Max. AC Output Current	12.5 A	15 A	16.5 A	18 A[2]	20 A	22.7 A	25 A[4]	30 A
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							
Efficiency								
Max. Efficiency	97.70%	97.70%	97.70%	97.10%	97.70%	97.70%	97.00%	97.70%
Euro. Efficiency	96.50%	96.50%	96.50%	96.60%	97.00%	97.00%	97.00%	97.00%
MPPT Efficiency	>99%							
Protection								
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							
General Data								
Dimension (W x H x D)	368 × 325 × 150 mm							
Weight	12 kg							
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							
Certifications and Standards								
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);