

# Grid Tied Inverter

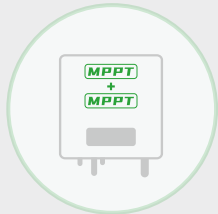
Single Phase: GT1-5K/6K D1

The LIVOLTEK GT1-5.0/6.0K-D1 inverter is specially designed for private residential PV systems and its compact design ensures minimal space requirements. Small in size and light in weight, it can be easily installed by one person. The inverter can optionally integrate the AFCI DC fault arc protection function inside, which can actively reduce the risk of fire with a high safety factor. In addition, it also supports a local Bluetooth APP and remote dual monitoring, which is convenient and stable.



## Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation saves time
- 110% AC output for efficient power generation



Built-in Dual MPPT



Optional Internal Integrated AFCI Module



Plug-and-play Installation Saves Time



Export Limitation

## Compatible Products



LCD Screen



PSD200-FI Dongle



Smart Meter



Monitoring System

## Specifications

Model	GT1-5KD1	GT1-6KD1
<b>Input (PV)</b>		
Max. DC Input Power	7500Wp	9000Wp
Max. DC Input Voltage	550V	
Min PV Input Voltage	70V	
Start-up DC Input Voltage	90V	
Nominal DC Input Voltage	360V	
MPPT Operating Range	70-545V	
Max. DC Input Current	14A+14A	
Max. Short Circuit Current	20A+20A	
No. of MPPTs/Strings per MPPT	2/1	
<b>Output (Grid)</b>		
Nominal Output Power	5000W	6000W
Max. Apparent Power	5500VA	6600VA
Rated AC Grid Output Current	21.7A	26.1A
Max. AC Output Current	23.9A	28.7A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE	
AC Grid Voltage Range	160V-300V (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)	
Output THDi (@Nominal Output)	<3%	
<b>Efficiency</b>		
Max. Efficiency	98.4%	98.4%
Euro Efficiency	97.5%	97.5%
MPPT Efficiency	>99%	
<b>Protection</b>		
Surge Arrester	Type III / Type II (Optional)	
PV Current Detection	Support	
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	
Anti-arc Protection	Optional	
<b>General Data</b>		
Dimension (W*H*D)	350*315*176mm	
Weight	12.5kg	
Protection Degree	IP65	
Cooling	Natural Cooling	
Operating Temperature Range	-30°C ~ +60°C (Derating at 45°C)	
Typical Noise Emission	< 25dB	
Night Self Consumption	< 1W	
Display	LED+APP	
Communication	RS485(Meter), Wi-Fi+Bluetooth, DRM	
Topology	Transformerless	
<b>Certifications and Standards</b>		
Grid Regulation	IEC61727, IEC62116, EN50549, ABNT NBR 16149, ABNT NBR 16150, UL 1741, IEEE 1547	
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4	
Standard Warranty	5 Years/10 Years (Optional)	