

Grid Tied Inverter

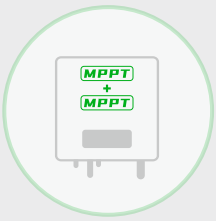
Single Phase: GT1-3K6/4K/4K6/5K/6K D1

The LIVOLTEK GT1-3.6/4.0/4.6/5.0/6.0K-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 protection function inside, which can actively reduce the risk of fire as a high safety factor. In addition, it also supports a local bluetooth APP and remote dual monitoring, which is convenient and stable.

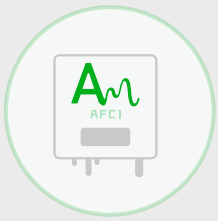


Features

- 150% DC/AC ratio
- Export limitation (optional)
- Smart APP to monitor & optimize
- AFCI (optional)
- Plug-and-play installation to save 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



Wi-Fi Dongle



Smart Meter



Monitoring System

Specifications

Model	GT1-3K6D1	GT1-4KD1	GT1-4K6D1	GT1-5KD1	GT1-6KD1
PV Input					
Max. PV Input Power	5400Wp	6000Wp	6900Wp	7500Wp	9000Wp
Max. PV Input Voltage	550V				
Min. PV Input Voltage	70V				
Start-up Input Voltage	90V				
Nominal Input Voltage	360V				
MPPT Voltage Range	70-545V				
Max. PV Current	14A+14A				
Max. Short Circuit Current	20A+20A				
No. of MPPTs/Strings per MPPT	2/1				
AC Output					
Nominal AC Power	3600W	4000W	4600W	5000W	6000W
Max. Apparent Power	3960VA	4400VA	4600VA	5500VA	6600VA
Rated AC Grid Output Current	15.7A	17.4A	20.0A	21.7A	26.1A
Max. AC Output Current	17.2A	19.1A	20.0A	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)				
THDi, Rated Power[%]	<3%				
Efficiency					
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%
Euro Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%
MPPT Efficiency	>99%				
Protection					
Surge Arrester	Type III / Type II (Optional)				
PV Current Detection	Support				
AC Short Circuit Protection	Support				
Anti-islanding Protection	Support				
Ground Fault Monitoring	Support				
Residual Current Monitoring Unit	Support				
DC Reverse Polarity Protection	Support				
Anti-arc Protection	Optional				
General Data					
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				
Certifications and Standards					
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)				