



Grid-tied Inverter

Three Phase:
GT3-4K/5K/6K/8K/10K/12K/15K/17K/20K/
22K/25KD1
GT3-10K/12KDL1

The LIVOLTEK GT3-4-25KD1 Grid-tied inverter, designed for both residential and commercial users, is perfect for three-phase rooftop installations. The inverter includes an integrated shadow optimization management system, ensuring maximum energy production even in partially shaded conditions. It includes an optional AFCI module to enhance safety by preventing electrical fires from arc faults in the wiring. With its 160V ultra-low start-up voltage and extended operational duration, this inverter is an excellent choice for residential and small commercial projects.

Product Benefits

- ⌚ 150% DC/AC ratio
- ⌚ Export limitation (optional)
- ⌚ Smart APP for monitoring and optimization
- ⌚ Integrated arc fault circuit interrupter (optional)
- ⌚ Plug-and-play design for quick installation
- ⌚ 110% AC output for enhanced efficiency

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INVERTER

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Model	GT3-4KD1	GT3-5KD1	GT3-6KD1	GT3-8KD1	GT3-10KD1	GT3-12KD1	GT3-15KD1	GT3-17KD1	GT3-20KD1	GT3-22KD1	GT3-25KD1
PV Input											
Max. PV Input Voltage						1000 V					
Min. PV Input Voltage						140 V					
Start-up Input Voltage						160 V					
Nominal Input Voltage						650 V					
MPPT Voltage Range	140V~1000V										
Max. PV Input Current	16A + 16A					40A + 20A		40A + 40A			
Max. Short Circuit Current	21A + 21A					52A + 26A		52A + 52A			
No. of MPPTs	2					2		2			
No. of Strings per MPPT	1/1					2/1		2/2			
AC Output											
Max. Apparent Power	4400 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA	16500 VA	18700 VA	22000 VA	24200 VA	27500 VA
Rated AC Grid Output Current	5.8 A	7.2 A	8.7 A	11.5 A	14.4 A	17.3 A	21.7 A	24.5 A	28.9 A	31.8 A	36.1 A
Max. AC Output Current	6.4 A	7.9 A	9.5 A	12.7 A	15.9 A	19.1 A	23.8 A	27.0 A	31.8 A	34.9 A	39.7 A
Rated AC Grid Voltage	3/N/PE, 220V/380V, 230V/400V										
AC Grid Voltage Range	270V~480V										
Rated Grid Frequency	50Hz/60Hz										
Grid Frequency Range	45Hz-55Hz/55Hz-66Hz										
Power Factor	>0.99 Rated Power (Adjustable 0.8 Leading~0.8 Lagging)										
THDi	<3% at rated power										
Efficiency											
Euro Efficiency	98.10%	98.10%	98.10%	98.20%	98.20%	98.20%	98.00%	98.10%	98.20%	98.20%	98.20%
MPPT Efficiency	>99%										
Protection											
Surge Arrester						Type II					
PV Current Detection						Support					
AC Short Circuit Protection						Support					
Anti-islanding Protection						Support					
Residual Current						Support					
Monitoring Unit Integrated AFCI (Arc-Fault Circuit Protection)						Optional					
General Data											
Weight	22 kg							24.5 kg			
Protection Degree	IP65							IP65			
Cooling	Natural Cooling							Fan Cooling			
Operating Temperature	-30°C to +60°C (Derating at 45°C)							-30°C to +60°C (Derating at 45°C)			
Typical Noise Emission	<30 dB							<40 dB			
Night Self Consumption						<1 W					
Display						LED + APP					
Communication						RS485 (Meter), Wi-Fi + Bluetooth, DRM					
Certifications and Standards											
Grid Regulation						IEC61727, IEC62116, EN50549, CQC(NB/T32004)					
Safety/EMC						IEC62109-1/2, EN61000-6-1/2/3/4					

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Model	GT3-10KDL1	GT3-12KDL1
Input (PV)		
Max. DC Input Power	15000 Wp	15000 Wp
Max. DC Input Voltage	1100 V	
Min PV input Voltage	140 V	
Start-up DC Input Voltage	160 V	
Nominal DC Input Voltage	650 V	
MPPT Operating Range	140V-600V	
Max. DC Input Current	40A/40A	
Max. Short Circuit Current	52A/52A	
No. of MPPTs	2	
No. of Strings per MPPT Tickers	2/2	
Output (AC)		
Nominal Output Power	10000 W	10000 W
Max. Apparent Power	11000 VA	11000 VA
Rated AC Grid Output Current	26.2 A	26.2 A
Max. AC Output Current	28.9 A	28.9 A
Rated AC Grid Voltage	3/N/PE, 127V/220V	
AC Grid Voltage Range	127V-300V	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz	
Power Factor	>0.99 at rated power (Adjustable 0.8 Leading-0.8 Lagging)	
THDi	<3% at rated power	
Efficiency		
Max. Efficiency	98.60%	98.60%
Euro Efficiency	98.20%	98.20%
MPPT Efficiency	>99%	
General Data		
Dimensions (W × H × D)	520 × 420 × 193 mm	
Weight	24.5 kg	
Protection Degree	IP65	
Cooling	Fan cooling	
Operating Temperature Range	-30°C to +60°C (Derating at 45°C)	
Typical Noise Emission	<40 dB	
Night Self Consumption	<1 W	
Display	LED + APP	
Communication	RS485 (LCD/Meter), 4G/Wi-Fi + Bluetooth, DRM	
Certifications and Standards		
Grid Regulation	IEC61727, IEC62116	
Safety/EMC	IEC62109-1/2, EN61000-6-1/2/3/4	