

Grid Tied Inverter

Three Phase: GT3-4K/5K/6K/8K/10K/12K/15K/17K/20K/22K/25K D1

The LIVOLTEK GT3-4/5/6/8/10/12/15/17/20/22/25K-D1 PV inverter is developed for residential or commercial customers who need a three-phase rooftop model. The integrated shade fixing management system ensures the inverter to maximize energy production even when the PV panels are lightly shaded. The machine has a built-in optional AFCI module to prevent electrical fires caused by abnormal arc faults in the electrical wiring as a high safety feature. With 160V ultra-low start-up voltage, ultra-long working time, it's surely an ideal choice for large commercial and industrial power plants.

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



Specifications

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 Power	6000Wp	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	22500Wp	25500Wp	30000Wp	33000Wp	37500Wp	
Max. PV Input Voltage	1100V											
Min. PV Input Voltage	140V											
Start-up Input Voltage	160V											
Nominal Input Voltage	650V											
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												
Nominal AC Power	4000W	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	22000W	25000W	
Max. Apparent Power	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA	18700VA	22000VA	24200VA	27500VA	
Rated AC Grid Output Current	5.8A	7.2A	8.7A	11.5A	14.4A	17.3A	21.7A	24.5A	28.9A	31.8A	36.1A	
Max. AC Output Current	6.4A	7.9A	9.5A	12.7A	15.9A	19.1A	23.8A	27.0A	31.8A	34.9A	39.7A	
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 - 0.8Lagging)											
THDi, Rated Power[%]	<3%											
Efficiency												
Max. Efficiency	98.50%	98.50%	98.50%	98.60%	98.60%	98.60%	98.50%	98.50%	98.60%	98.60%	98.60%	
Euro Efficiency	98.10%	98.10%	98.10%	98.20%	98.20%	98.20%	98.10%	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 Monitoring Unit	Support											
Integrated AFCI (Arc-Fault Circuit Protection)	Optional											
General Data												
Dimension (W*H*D)	520*420*193mm											
Weight	22kg					24.5kg						
Protection Degree	IP65					IP65						
Cooling	Natural Cooling					Fan Cooling						
Operating Temperature Range	-30°C~ 60°C (Derating at 45°C)					-30°C~ 60°C (Derating at 45°C)						
Typical Noise Emission	<30dB					<40dB						
Night Self Consumption	<1W											
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											
Standard Warranty	5 Years/10 Years (Optional)											