



## **Grid Tied Inverter**

Three Phase: GT3-5K/6K/10K/12K/15K/20K/25K D1

The LIVOLTEK GT3-5/10/12/15/20/25K-D1 PV inverter is developed for residential or commercial customers who need a three-phase rooftop model. The Shade Fix integrated shading management system ensures that the inverter maximizes 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, with a high safety factor. 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





Support Export Limitation



IP65 C5 Anti-corrosion



SPD II Protection

## **Compatible Products**



LCD Screen



PSD200-FI Dongle



Smart Meter



Monitoring System

## Specifications

Model	GT3- 5KD1	GT3- 6KD1	GT3- 10KD1	GT3- 12KD1	GT3- 15KD1	GT3- 20KD1	GT3- 25KD1	
Input(PV)				IZROI				
Max. DC Input Power	7500Wp	9000Wp	15000Wp	18000Wp	22500Wp	30000Wp	37500Wp	
Max. DC Input Voltage	1100V							
/in PV Input Voltage	140V							
Start-up DC Input Voltage	160V							
Nominal DC Input Voltage	650V							
MPPT Operating Range	140V-1000V							
Max. DC 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 MPP Tackers	1/1			2/1		2/2		
Dutput (AC)				1		1		
Nominal Output Power	5000W	6000W	10000W	12000W	15000W	20000W	25000W	
Max. Apparent Power	5500VA	6600VA	11000VA	13200VA	16500VA	22000VA	27500VA	
Rated AC Grid Output Current	7.2A	8.7A	14.4A	17.3A	21.7A	28.9A	36.1A	
lax. AC Output Current	7.9A	9.5A	15.9A	19.1A	23.8A	31.8A	39.7A	
Rated AC Grid Voltage	3/N/PE, 220V/380V, 230V/400V							
C Grid Voltage Range	270V-480V							
Rated Grid Frequency	50Hz/60Hz							
Grid Frequency Range	45Hz-55Hz/55Hz-66Hz							
Power Factor								
Output THDi (@Nominal Output)	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8Lagging) <3%							
fficiency				< 3 70				
lax. Efficiency	98.50%	98.50%	98.60%	98.60%	98.50%	98.60%	98.60%	
uro Efficiency	98.10%	98.10%	98.20%		98.10%	98.20%	98.20%	
APPT Efficiency	98.10%	98.1070	98.2070	98.20% >99%	38.1070	98.2070	98.2070	
Protection				23370				
Surge Arrester				Tunell				
PV Current Detection	Type II							
Over Current Protection	Support							
AC Short Circuit Protection	Support							
Over Voltage Protection	Support							
Anti-islanding Protection	Support							
Residual Current Monitoring Unit	Support							
ntegrated AFCI (Arc-Fault	Support							
Circuit Protection)	Optional							
General Data								
Dimension (W*H*D)			ŗ	520*420*193m	m			
Weight	22kg 24.5kg							
Protection Degree	IP65			IP65				
Cooling	Natural Cooling			Fan Cooling				
Dperating Temperature Range	-30°C~ 60°C (Derating at 45°C)			_30℃~ 60℃ (Derating at 45°C)				
ypical Noise Emission	<30dB <40dB							
light Self Consumption	<1W							
Display	LED+APP							
Communication	RS485(Meter), 4G/Wi-Fi+Bluetooth, DRM							
Certifications and Standards			NJ-JJ(Mete	, <del>,</del> , , , , , , , , , , , , , , , , ,				
Grid Regulation								
Safety/EMC		IEC61727, IEC62116, CQC ABNT NBR 16149, ABNT NBR 16150						
Standard Warranty	IEC62109-1/2, EN61000-6-1/2/3/4 5 Years/10 Years (Optional)							