

# Grid Tied Inverter

Three Phase: GT3-75/100/110/125K<sup>[1]</sup>  
GT3-36K/40K/50K/60K75K-L  
GT3-125K/150K-M

Livolttek GT3-75/100/110/125K-1 series inverters are widely deployed in commercial and industrial ground-mounted power stations. Featuring a brand-new intelligent fan cleaning design, they are well-suited for harsh desert conditions while also enhancing the product's service life. These inverters also boast exceptional compatibility, with a maximum input current of 40A, enabling them to work with 210+ high-current modules. Equipped with up to 10 MPPT precision algorithms, they can flexibly adapt to complex installation environments, thereby increasing power generation. Additionally, they support global MPPT scanning, built-in PID recovery, night SVG, and remote monitoring capabilities, providing customers with continuous, stable long-term service and maximised power generation benefits.

## Features

- Global MPPT scan function
- String current up to 40A
- AFCI function (optional)
- Night SVG function
- Remote and local dual monitoring, high stability
- Built-in PID recovery function



[1]: Will be launched in 2024.10.

# Specifications

Technical Data	GT3-75K	GT3-100K	GT3-110K	GT3-125K
<b>PV Input Data</b>				
Max. DC Input Power [Wp]	150%			
Max. DC Input Voltage[V]	1100			
Min PV input voltage[V]	180			
Start-up DC Input Voltage[V]	200			
Nominal DC Input Voltage[V]	620			
MPPT Operating Range[V]	180-1000			
Max. DC Input Current[A]	8*40	10*40	10*40	10*40
Max. Short Circuit current[A]	8*52	10*52	10*52	10*52
No. of MPPTs	8	10	10	10
No. of Strings per MPP Trackers	8*2	10*2	10*2	10*2
<b>AC Output Data</b>				
Nominal Output Power [W]	75000	110000	110000	125000
Max. Apparent Power [VA]	82500	110000	121000	137500
Rated AC Grid Output Current[A]	114.0	151.9	167.1	189.9
Max. AC Output Current[A]	125.3	167.1	183.8	208.9
Rated AC Grid Voltage[V]	3L/N/PE, 3L/PE, 380/400/415			
AC Grid Voltage Range①[V]	310-480			
Rated Grid Frequency [Hz]	50/60			
Grid Frequency Range②[Hz]	45-55/55-65			
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)			
Output THDi (@Nominal Output)	<3%			
<b>Efficiency</b>				
Max. Efficiency[%]	98.50%	98.50%	98.50%	98.50%
Euro Efficiency[%]	98.30%	98.30%	98.30%	98.30%
MPPT Efficiency[%]	>99%			
<b>Protection</b>				
Integrated DC Switch	Support			
DC Reverse Polarity Protection	Support			
Surge Protection	Type II			
PV Current Detection	Support			
Insulation Resistor Detection	Support			
Output Over Current Protection	Support			
AC Short Circuit Protection	Support			
Output Over Voltage Protection	Support			
Anti-islanding Protection	Support			
Temperature Protection	Support			
Ground Fault Monitoring	Support			
Internal Over Voltage Protection	Support			
Input Over Current Protection	Support			
Grid Monitoring	Support			
Integrated PID recovery	Support			
Residual Current Monitoring Unit	Support			
AFCI Protection	Optional			
<b>General Data</b>				
Dimensions[W*H*D] [mm]	960*725*369			
Weight [kg]	87			
Mounting Information	Wall Mounting			
Protection Degree	IP65			
Operating Temperature Range [°C]	-30 °C ... +60 °C (derating at 45°C)			
Relative Humidity	0-100%			
Max. Operating Altitude[m]	4000(≥3000)			
Night Self Consumption [W]	< 5			
Display	LED+APP			
Communication	RS485 (Meter/GEN) ,Wi-Fi			
Topology	Transformerless			
<b>Certifications and Standards</b>				
Grid Regulation	IEC61727, IEC62116, NRS 097, EN50549, NO.140			
Safety	IEC62109-1/-2			
EMC	EN61000-6-1/2/3/4			
Standard Warranty[years]	5 Years (10 years optional)			