

Grid-tied Inverter

Three Phase: GT3-75/100/110/125K
GT3-36K/40K/50K/60K/75K-L
GT3-100K/124K/125K/150K-M

The Livoltek GT3-75 / 100 / 110 / 125K series of inverters is extensively utilized in commercial and industrial ground-mounted power stations. These inverters feature an innovative intelligent fan cleaning design, making them well-suited for harsh desert environments and significantly enhancing the product's service life. With exceptional compatibility, they support a maximum input current of 40A, allowing them to accommodate 210+ high-current modules. Equipped with up to 10 Maximum Power Point Trackers (MPPTs) and precision algorithms, they can flexibly adapt to complex installation environments, thereby increasing power generation. Additionally, they support global MPPT scanning, built-in Power Factor Correction (PFC), night SVG (Static Var Generator), and remote monitoring capabilities, ensuring customers receive continuous, stable long-term service and maximizing power generation benefits.

Features

- Global maximum power point tracking scan
- String current up to 20A
- AFCI function (optional)
- Night SVG function
- Remote and local dual monitoring, high stability
- Built-in PID recovery function



Technical Specification

Technical Data	GT3-75K	GT3-100K	GT3-110K	GT3-125K
PV Input Data				
Max. DC Input Power [Wp]	112500	150000	165000	187500
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 Tackers	8*2	10*2	10*2	10*2
AC Output Data				
Nominal Output Power [W]	75000	100000	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]	320 - 480			
Rated Grid Frequency [Hz]	50 / 60			
Grid Frequency Range②[Hz]	45-55 / 55-65			
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8 Lagging)			
THDi	<3% at rated power			
Efficiency				
Max. Efficiency[%]	98.50%	98.50%	98.50%	98.50%
Euro Efficiency[%]	98.30%	98.30%	98.30%	98.30%
MPPT Efficiency[%]	>99%			
Protection				
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			
General Data				
Dimensions(W*H*D) [mm]	960*725*369			
Weight [kg]	87			
Mounting Information	Wall Mounting			
Protection Degree	IP66			
Operating Temperature Range [°C]	-30 °C to +60 °C (derating at 45°C)			
Relative Humidity	0 - 100%			
Max. Operating Altitude[m]	4000(≥3000) derating			
Night Self Consumption [W]	<5			
Display	LED+APP			
Communication	RS485, Wi-Fi			
Topology	Transformerless			
Certifications and Standards				
Grid Regulation	IEC61727, IEC62116, NRS 097, EN50549, NO. 140			
Safety	IEC62109-1 / -2			
EMC	EN61000-6-1 / 2 / 3 / 4			
Standard Warranty[years]	10 years			