

GRID-TIED INVERTER

THREE PHASE:

GT3-75/100/110/125K-1, GT3-75/100/110/125K-1L, GT3-75/100/110K-12

GT3-36/40/50/60/75KL1, GT3-36/40/50/60/75KL1L, GT3-60KL12

GT3-100/124/125/150KM1, GT3-100/124/125KM1L

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.

Product Benefits

Global maximum power point tracking scan

String current up to 20A

AFCl function (optional)

Night SVG function

Remote and local dual monitoring, high stability

Built-in PID recovery function



INVERTER

THREE-PHASE: GT3-75/100/110/125K-1

GT3-75/100/110/125K-11, GT3-75/100/110K-12

Model	GT3-75K-12	GT3-75K-11	GT3-100K-12	GT3-100K-12	GT3-75K-1	GT3-100K-1	GT3-110K-11	GT3-125K-11	GT3-100K-1	GT3-110K-1	GT3-125K-1
PV Input											
Max. DC Input Power [Wp]	112500	112500	150000	165000	112500	150000	165000	187500	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]	600										
MPPT Operating Range[V]	180 - 1000										
Max. DC Input Current[A]	4*40	6*40			8*40			10*40			
Max. Short Circuit current[A]	4*52	6*52			8*52			10*52			
No. of MPPTs	4	6			8			10			
No. of Strings per MPP Trackers	4*2	6*2			8*2			10*2			
AC Output Data											
Nominal Output Power [W]	75000	75000	100000	110000	75000	100000	110000	125000	100000	110000	125000
Max. Apparent Power [VA]	75000	75000	110000	121000	82500	110000	121000	137500	110000	121000	137500
Rated AC Grid Output Current[A]	114.0	114.0	151.9	167.1	114.0	151.9	167.1	189.9	151.9	167.1	189.9
Max. AC Output Current[A]	114.0	114.0	167.1	183.8	114.0	167.1	183.8	208.9	167.1	183.8	208.9
Rated AC Grid Voltage[V]	3L / N / PE, 3L / PE, 380 / 400 / 415										
AC Grid Voltage Range [V]	320 - 480										
Rated Grid Frequency [Hz]	50 / 60										
Grid Frequency Range [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%	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%
Euro Efficiency[%]	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	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]	725*960*369 mm										
Weight [kg]	87 kg										
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 W										
Display	LED+APP										
Communication	RS485, Wi-Fi										
Topology	Transformerless										
Certifications and Standards											
Grid Regulation	IEC61727, IEC62116, NRS 097, EN50549, NO. 140										
Safety / EMC	IEC62109-1 / -2										
Standard Warranty	EN61000-6-1 / 2 / 3 / 4										

INVERTER

GT3-36/40/50/60/75KL11, GT3-60KL12

Model	GT3-36KL1	GT3-40KL1	GT3-50KL1	GT3-60KL12	GT3-36KL1	GT3-40KL1	GT3-50KL1	GT3-60KL11	GT3-75KL11	GT3-60KL1	GT3-75KL1
PV Input											
Max. DC Input Power [Wp]	54000	60000	75000	90000	54000	60000	75000	90000	112500	90000	112500
Max. DC Input Voltage[V]						800					
Min. PV Input Voltage[V]						180					
Start-up DC Input Voltage[V]						200					
Nominal DC Input Voltage[V]						370					
MPPT Operating Range[V]						180 - 700V					
Max. DC Input Current[A]	4*40					6*40				8*40	
Max. Short Circuit Current[A]	4*52					6*52				8*52	
No. of MPPTs	4					6				8	
No. of Strings per MPP Tackers	4*2					6*2				8*2	
AC Output											
Nominal Output Power [W]	36000	40000	50000	60000	36000	40000	50000	60000	75000	60000	75000
Max. Apparent Power [VA]	39600	44000	55000	66000	39600	44000	55000	66000	75000	66000	75000
Rated AC Grid Output Current[A]	94.5	105	131.2	157.5	94.5	105	131.2	157.5	196.8	157.5	196.8
Max. AC Output Current[A]	103.9	115.5	144.3	173.2	103.9	115.5	144.3	173.2	196.8	173.2	196.8
Rated AC Grid Voltage[V]	3 / (N) / PE, 220										
AC Grid Voltage Range⓪[V]	176 - 264										
Rated Grid Frequency [Hz]	50 / 60										
Grid Frequency Range ⓪[Hz]	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%					
Euro Efficiency[%]						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 mm					
Weight [kg]						87 kg					
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					
Safety						IEC62109-1 / -2					
EMC						EN61000-6-1 / 2 / 3 / 4					

GT3-100/124/125KM11

Model	GT3-100KM11	GT3-124KM11	GT3-125KM11	GT3-100KM1	GT3-124KM1	GT3-125KM1	GT3-150KM1
PV Input							
Max. DC Input Power [Wp]	150000	186000	187500	150000	186000	187500	225000
Max. DC Input Voltage[V]				1100			
Min. PV Input Voltage[V]				180			
Start-up DC Input Voltage[V]				200			
Nominal DC Input Voltage[V]				720			
MPPT Operating Range[V]				180 - 1000			
Max. DC Input Current[A]	8*40			10*40			
Max. Short Circuit Current[A]	8*52			10*52			
No. of MPPTs	8			10			
No. of Strings per MPP Trackers	8*2			10*2			
AC Output							
Nominal Output Power [W]	100000	124000	125000	100000	124000	125000	150000
Max. Apparent Power [VA]	110000	124000	137500	110000	124000	137500	165000
Rated AC Grid Output Current[A]	120.3	149.2	150.4	120.3	149.2	150.4	180.4
Max. AC Output Current[A]	132.2	149.2	165.4	132.2	149.2	165.4	198.5
Rated AC Grid Voltage[V]	3 / (N) / PE, 277 / 480						
AC Grid Voltage Range ⓪[V]	408 - 528						
Rated Grid Frequency [Hz]	50 / 60						
Grid Frequency Range ⓪[Hz]	55 - 65						
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8 Lagging)						
THDi	<3% at rated power						
Efficiency							
Max. Efficiency[%]				98.80%			
Euro Efficiency[%]				98.40%			
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]				≤ 86			
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, IEEE1547			
Safety				UL1741, IEC62109-1-2			
EMC				EN61000-6-1 / 2 / 3 / 4			