

## GRID-TIED INVERTER

### THREE PHASE:

GT3-75/100/110/125K-1, GT3-75/100/110/125K-11, GT3-75/100/110K-12 (EN)

GT3-36/40/50/60/75KL1, GT3-36/40/50/60/75KL11, GT3-60KL12 (UL)

GT3-100/124/125/150KM1, GT3-100/124/125KM11 (UL)

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
-  AFCI function (optional)
-  Night SVG function
-  Remote and local dual monitoring, high stability
-  Built-in PID recovery function

## GRID-TIED INVERTER

INVERTER

THREE-PHASE: GT3-75/100/110/125K-1, GT3-75/100/110/125K-11, GT3-75/100/110K-12 (EN)

Model	GT3-75K-12	GT3-75K-11	GT3-100K-12	GT3-110K-12	GT3-75K-1	GT3-100K-11	GT3-110K-11	GT3-125K-11	GT3-100K-1	GT3-110K-1	GT3-125K-1
<b>PV Input</b>											
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	
<b>AC Output Data</b>											
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										
<b>Efficiency</b>											
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%										
<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]	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										
<b>Certifications and Standards</b>											
Grid Regulation	IEC61727, IEC62116, NRS 097, EN50549, NO. 140										
Safety / EMC	IEC62109-1 / -2										
Standard Warranty	EN61000-6-1 / 2 / 3 / 4										

# GRID-TIED INVERTER

THREE-PHASE: GT3-36/40/50/60/75KL1, GT3-36/40/50/60/75KL11, GT3-60KL12 (UL)

INVERTER

Model	GT3-36KL1	GT3-40KL1	GT3-50KL11	GT3-60KL12	GT3-36KL11	GT3-40KL11	GT3-50KL1	GT3-60KL11	GT3-75KL11	GT3-60KL1	GT3-75KL1	
<b>PV Input</b>												
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 Trackers	4*2			6*2			8*2					
<b>AC Output</b>												
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 Range[V]	176 - 264											
Rated Grid Frequency [Hz]	50 / 60											
Grid Frequency Range[Hz]	55 - 65											
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8 Lagging)											
THDi	<3% at rated power											
<b>Efficiency</b>												
Max. Efficiency[%]	98.50%											
Euro Efficiency[%]	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 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											
<b>Certifications and Standards</b>												
Grid Regulation	IEC61727, IEC62116, IEEE1547											
Safety	UL1741, IEC62109-1 / -2											
EMC	EN61000-6-1 / 2 / 3 / 4											

# GRID-TIED INVERTER

THREE-PHASE: GT3-100/124/125/150KM1, GT3-100/124/125KM11 (UL)

INVERTER

Model	GT3-100KM11	GT3-124KM11	GT3-125KM11	GT3-100KM1	GT3-124KM1	GT3-125KM1	GT3-150KM1
<b>PV Input</b>							
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				
<b>AC Output</b>							
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[V]	408 - 528						
Rated Grid Frequency [Hz]	50 / 60						
Grid Frequency Range[Hz]	55 - 65						
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8 Lagging)						
THDi	<3% at rated power						
<b>Efficiency</b>							
Max. Efficiency[%]	98.80%						
Euro Efficiency[%]	98.40%						
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]	≤ 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						
<b>Certifications and Standards</b>							
Grid Regulation	IEC61727, IEC62116, IEEE1547						
Safety	UL1741, IEC62109-1 / -2						
EMC	EN61000-6-1 / 2 / 3 / 4						