

# Inverter a Stringa

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

La serie di inverter Livoltek GT3-75 / 100 / 110 / 125K è ampiamente utilizzata nelle stazioni di potenza a terra commerciali e industriali. Questi inverter presentano un innovativo design intelligente di pulizia delle ventole, che li rende particolarmente adatti per ambienti desertici e ne migliora significativamente la durata.

Con una compatibilità eccezionale, supportano una corrente massima di ingresso di 40A, consentendo di gestire moduli ad alta corrente da 210+. Equipaggiati con fino a 10 tracker MPPT e algoritmi di precisione, possono adattarsi in modo flessibile a ambienti di installazione complessi, ottimizzando così la produzione di energia. Inoltre, supportano la scansione globale MPPT, la correzione del fattore di potenza (PFC) integrata, il SVG notturno (Static Var Generator) e funzionalità di monitoraggio remoto, garantendo ai clienti un servizio stabile e continuo a lungo termine e massimizzando i benefici della produzione di energia.

## Caratteristiche

- Scansione del punto di massima potenza
- Corrente di stringa fino a 20A
- Funzione AFCI (opzionale)
- Funzione notturna SVG
- Monitoraggio remoto e locale a doppia connessione, alta stabilità
- Funzione integrata di recupero PID



## Specifiche Tecniche

Technical Data	GT3-75K	GT3-100K	GT3-110K	GT3-125K
<b>PV Input Data</b>				
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 Trackers	8*2	10*2	10*2	10*2
<b>AC Output Data</b>				
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 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%
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	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, NRS 097, EN50549, NO. 140			
Safety	IEC62109-1 / -2			
EMC	EN61000-6-1 / 2 / 3 / 4			

## Specifiche Tecniche

Technical Data	GT3-36K-L	GT3-40K-L	GT3-50K-L	GT3-60K-L	GT3-75K-L
<b>PV Input Data</b>					
Max. DC Input Power [Wp]	54000	60000	75000	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 - 700				
Max. DC Input Current[A]	8*40	8*40	8*40	10*40	10*40
Max. Short Circuit Current[A]	8*52	8*52	8*52	10*52	10*52
No. of MPPTs	8	8	8	10	10
No. of Strings per MPP Trackers	8*2	8*2	8*2	10*2	10*2
<b>AC Output Data</b>					
Nominal Output Power [W]	36000	40000	50000	60000	75000
Max. Apparent Power [VA]	39600	44000	55000	66000	75000
Rated AC Grid Output Current[A]	94.5	105.0	131.2	157.5	196.8
Max. AC Output Current[A]	103.9	115.5	144.3	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				
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				
<b>Certifications and Standards</b>					
Grid Regulation	IEC61727, IEC62116				
Safety	IEC62109-1 / -2				
EMC	EN61000-6-1 / 2 / 3 / 4				

## Specifiche Tecniche

Technical Data	GT3-100K-M	GT3-124K-M	GT3-125K-M	GT3-150K-M
<b>PV Input Data</b>				
Max. DC Input Power [Wp]	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]	10*40	10*40	10*40	10*40
Max. Short Circuit Current[A]	10*52	10*52	10*52	10*52
No. of MPPTs	10	10	10	10
No. of Strings per MPP Trackers	10*2	10*2	10*2	10*2
<b>AC Output Data</b>				
Nominal Output Power [W]	100000	124000	125000	150000
Max. Apparent Power [VA]	110000	124000	137500	165000
Rated AC Grid Output Current[A]	120.3	149.2	150.4	180.4
Max. AC Output Current[A]	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			