

Grid-tied Inverter

Single Phase: GT1-7K/7.5K/8K/9K/10KT2

The Livoltek GT1-7-10KT2 Grid-tied inverter is specifically designed for high-power, single-phase residential applications, making it an ideal choice for complex rooftops, private homes, villas, and small commercial settings. It boasts three MPPT trackers, each capable of handling an input current of 16A, which allows it to accommodate high-efficiency, large modules and significantly boost power generation. Featuring an integrated SPD II module, this inverter cuts down on external labor and wiring costs associated with installation. Additionally, its local AP mode alongside remote Wi-Fi dual monitoring ensures optimal performance, convenience, and stability, providing users with a superior inverter experience.

Product Benefits

- 3 MPPT trackers
- 24/7 monitoring and maintenance
- Built-in Type II DC&AC SPD
- DC input 16A per string
- Integrated arc fault circuit interrupter (optional)
- Limitation export control



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INVERTER

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Model	GT1-7KT2	GT1-7K5T2	GT1-8KT2	GT1-9KT2	GT1-10KT2
PV Input					
Max. DC Input Power	10500 Wp	11250 Wp	12000 Wp	13500 Wp	15000 Wp
Max. DC Input Voltage	600 V				
Min PV Input Voltage	70 V				
Start-up DC Input Voltage	90 V				
Nominal DC Input Voltage	360 V				
MPPT Operating Range	70-550 V				
Max. DC Input Current	16 A + 16 A + 16 A				
Max. Short Circuit Current	20 A + 20 A + 20 A				
No. of MPPTs/Strings per MPPT	3/1				
AC Output					
Nominal Output Power	7000 W	7500 W	8000 W	9000 W	10000 W
Max. Apparent Power	7700 VA	7500 VA	8800 VA	9900 VA	11000 VA
Rated AC Grid Output Current	31.8 A	34.1 A	36.4 A	40.9 A	45.5 A
Max. AC Output Current	35 A	34.1 A	40 A	45 A	50 A
Rated AC Grid Voltage	220V/230V/240V, L+N+PE				
AC Grid Voltage Range	154V-290V (Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	>0.99 Rated Power (Adjustable 0.8 Leading-0.8 Lagging)				
THDi	<3% at rated power				
Efficiency					
Max. Efficiency	98.00%	98.00%	98.00%	98.00%	98.00%
Euro. Efficiency	97.50%	97.50%	97.50%	97.50%	97.50%
MPPT Efficiency	>99%				
Protection					
Surge Arrester	Type II				
PV Current Detection	Support				
Over Current Protection	Support				
AC Short Circuit Protection	Support				
Over Voltage Protection	Support				
Anti-islanding Protection	Support				
Ground Fault Monitoring	Support				
Residual Current Monitoring Unit	Support				
DC Reverse Polarity Protection	Support				
AC auxiliary power supply (APS)	Optional				
Anti-arc Protection	Optional				
General Data					
Dimensions (W × H × D)	465 × 425 × 180 mm				
Weight	19.5 kg				
Protection Degree	IP65				
Cooling	Natural Cooling				
Operating Temperature Range	-30°C to +60°C (Derating at 45°C)				
Night Self Consumption	<1 W				
Display	LED+APP				
Communication	RS485 (Meter), Wi-Fi				
Topology	Transformerless				
Certifications and Standards					
Grid Regulation	ORDINANCE No.140, IEEE1547				
Safety/EMC Standard	IEC62109-1/-2, UL1741, IEC61000-6-1/2/3/4				