

GRID-TIED INVERTER

SINGLE PHASE: GT1-7K/7K5/8K/9K/10K T2

The Livoltek GT1-7~10K T2 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 MPP 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 MPP 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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Model	GT1-7KT2	GT1-7K5T2	GT1-8KT2	GT1-9KT2	GT1-10KT2
PV Input					
Max. DC Input Power	10500Wp	11250Wp	12000Wp	13500Wp	15000Wp
Max. DC Input Voltage	600V				
Min PV Input Voltage	70V				
Start-up DC Input Voltage	90V				
Nominal DC Input Voltage	360V				
MPPT Operating Range	70V-560V				
Max. DC Input Current	16A + 16A + 16A				
Max. Short Circuit Current	20A + 20A + 20A				
No. of MPPTs/Strings per MPPT	3/1				
AC Output					
Nominal Output Power	7000W	7500W	8000W	9000W	10000W
Max. Apparent Power	7700VA	7500VA	8800VA	9900VA	11000VA
Rated AC Grid Output Current	31.8A	34.1A	36.4A	40.9A	45.5A
Max. AC Output Current	35A	34.1A	40A	45A	50A
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				
Protection					
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					
Dimension (W*H*D)	465*425*180 mm				
Weight	19.5kg				
Protection Degree	IP65				
Cooling	Natural Cooling				
Operating Temperature Range	-30°C to +60°C (Derating at 45°C)				
Night Self Consumption	< 1W				
Display	LED+APP				
Communication	RS485 (Meter), Wifi				
Topology	Transformerless				
Certifications and Standards					
Grid Regulation	ORDINANCE No.140, IEEE1547				
Safety/EMC Standard	IEC62109-1/-2, UL1741, IEC61000-6-1/2/3/4				