

Grid Tied Inverter

Three Phase: GT3-30K/33K T1 GT3-36K/37K5/40K/50K/60K Q1

LIVOLTEK GT3-30~60kW Grid-tied inverters are widely used in residential, commercial and industrial roofs. The maximum input current of each PV string is 20A, also compatible with 600W+ modules in the global markets. Combined with 3/4-way MPPT and precise algorithm, it's the ideal option for rooftop photovoltaic systems with complex orientations and various components. The inverters with wide operating voltage range of MPPT and low start-up voltage ensure longer working time and more power generation, supporting functions such as shadow scanning, remote operation and maintenance, so as to maximize continuous long-term benefits for end-users.

Features

- 24/7 live monitoring
- String current up to 20A
- AFCI function (optional)
- Night SVG function
- Export limitation (optional)
- Built-in PID recovery function



Specifications

Model	GT3-30KT1	GT3-33KT1	GT3-36KQ1	GT3-37K5Q1	GT3-40KQ1	GT3-50KQ1	GT3-60KQ1
PV Input							
Max. PV Input Power	45000Wp	49500Wp	54000Wp	56250Wp	60000Wp	75000Wp	90000Wp
Max. PV Input Voltage	1100V						
Start-up Input Voltage	180V						
Nominal Input Voltage	620V						
MPPT Voltage Range	180V-1000V						
Max. PV Input Current	40A/40A/40A			40A/40A/40A/40A			
Max.Short Circuit current	52A/52A/52A			52A/52A/52A/52A			
No. of MPPTs	3			4			
No. of Strings per MPP Trackers	2/2/2			2/2/2/2			
AC Output							
Nominal AC Power	30000W	33000W	36000W	37500W	40000W	50000W	60000W
Max. Apparent Power	33000VA	36300VA	39600VA	37500VA	44000VA	55000VA	60000VA
Rated AC Grid Output Current	45.6A	50.1A	54.7A	57.0A	60.8A	76.0A	91.0A
Max. AC Output Current	50.1A	55.2A	60.2A	57.0A	66.9A	83.6A	91.0A
Rated AC Grid Voltage	3/N/PE,3/PE,380V/400V						
AC Grid Voltage Range ^[1]	310V~480V						
Rated Grid Frequency	50Hz/60Hz						
Grid Frequency Range ^[2]	45Hz-55Hz/55Hz-65Hz						
Power Factor	> 0.99 Rated Power (Adjustable 0.8 Leading - 0.8Lagging)						
THDi, Rated Power[%]	<3%						
Efficiency							
Max. Efficiency	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%
MPPT Efficiency	>99%						
Protection							
Surge Arrester	Type II						
AC Short Circuit Protection	Support						
Anti-islanding Protection	Support						
Shade Fix Function	Support						
Integrated PID recovery	Support						
AC Auxiliary Power Supply (APS)	Support						
Residual Current Monitoring Unit	Support						
Integrated AFCI (Arc-Fault Circuit Protection)	Optional						
General Data							
Dimension (W*H*D)	481*613*251mm						
Weight	44kg	44kg	44kg	47kg	47kg	47kg	47kg
Protection Degree	IP65						
Cooling	Fan						
Operating Temperature Range	-30°C ~ +60°C (Derating at 45°C)						
Night Self Consumption	<3W						
Display	LED+APP						
Communication	RS485 (Meter/GEN/DRM), Wi-Fi						
Certifications and Standards							
Grid Regulation	IEC61727, IEC62116, EN50549						
Safety/EMC	IEC62109-1/-2; EN61000-6-1/2/3/4						
Standard Warranty	5 Years/10 Years (Optional)						