LIVOLTEK

GRID-TIED INVERTER

THREE PHASE:

GT3-30K D1, GT3-30K/33K/37K5 T1, GT3-36K/37K5/40K/50K/60K Q1 (EN)

GT3-15K/20K/25K DL1, GT3-10K/15K/20K/30K TL1, GT3-25K/30K QL1 (UL)

GT3-30KTM1, GT3-36K/40K/50K/60K QM1 (UL)

The LIVOLTEK this Grid-tied inverters are extensively utilized in residential, commercial, and industrial roof-top installations. Each photovoltaic string can handle a maximum input current of 20A and is compatible with high-power modules, including those exceeding 600W, available in the global market. These inverters feature three or four MPP trackers and a precise algorithm, making them an ideal choice for rooftop photovol-ta-ic systems that have complex orientations and utilize a variety of components. With a wide operating volt-age range and a low start-up voltage for the MPPT, the inverters ensure extended operational hours and increased power generation. They also support advanced functions such as shadow scanning and remote operation and maintenance, which are designed to maximize the long-term benefits for end-users.

Product Benefits

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

GRID-TIED INVERTER

INVERTER

THREE-PHASE: GT3-30K D1, GT3-30K/33K/37K5 T1, GT3-36K/37K5/40K/50K/60K Q1 (EN)

Model	GT3-30KD1	GT3-30KT1	GT3-33KT1	GT3-37K5T1	GT3-36KQ1	GT3-37K5Q1	GT3-40KQ1	GT3-50KQ1	GT3-60KQ1
PV Input									
Max. PV Input Power	45000Wp	45000Wp	49500Wp	56250Wp	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 / 40A / 40A				
Max.Short Circuit Current	52A / 52A	52A / 52A / 52A			52A / 52A / 52A / 52A				
No. of MPPTs	2	3			4				
No. of Strings per MPP Tackers	2 / 2	2 / 2 / 2			2 / 2 / 2 / 2				
AC Output									
Nominal AC Power	30000W	30000W	33000W	37500W	36000W	37500W	40000W	50000W	60000W
Max. Apparent Power	33000VA	33000VA	36300VA	37500VA	39600VA	37500VA	44000VA	55000VA	60000VA
Rated AC Grid Output Current	45.6A	45.6A	50.1A	57.0A	54.7A	57.0A	60.8A	76.0A	91.0A
Max. AC Output Current	50.1A	50.1A	55.2A	57.0A	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 at rated power (Adjustable 0.8 Leading - 0.8 Lagging)								
THDi	<3% at rated power								
Efficiency									
Max. Efficiency	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%
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)	613*481*251mm								
Weight	44kg	44kg	44kg	47kg	44kg	47kg	47kg	47kg	47kg
Protection Degree	IP65								
Cooling	Fan								
Operating Temperature Range	-30°C to +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								