

THREE PHASE:
GT3-30K DI, GT3-30K/33K/37K5 TI, GT3-36K/37K5/40K/50K/60K QI (EN)
GT3-15K/20K/25K DI1, GT3-10K/15K/20K/30K TI1, GT3-25K/30K QI1 (UL)
GT3-30KTI1, GT3-36K/40K/50K/60K QMI (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 photovoltaic systems that have complex orientations and utilize a variety of components. With a wide operating voltage 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.

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

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								

GRID-TIED INVERTER

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

INVERTER

Model	GT3-15KDL1	GT3-20KDL1	GT3-25KDL1	GT3-10KTL1	GT3-15KTL1	GT3-20KTL1	GT3-30KTL1	GT3-25KQL1	GT3-30KQL1
PV Input									
Max. PV Input Power	22500Wp	30000Wp	37500Wp	15000Wp	22500Wp	30000Wp	45000Wp	37500Wp	45000Wp
Max. PV Input Voltage	800V								
Start - up Input Voltage	200V								
Nominal Input Voltage	400V								
MPPT Voltage Range	180 - 700V								
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	15000W	20000W	25000W	10000W	15000W	20000W	30000W	25000W	30000W
Max. Apparent Power	16500VA	22000VA	27500VA	11000VA	16500VA	22000VA	33000VA	27500VA	33000VA
Rated AC Grid Output Current	39.4A	52.5A	65.6A	26.2A	39.4A	52.5A	78.7A	65.6A	78.7A
Max. AC Output Current	43.3A	57.7A	72.2A	28.9A	43.3A	57.7A	86.6A	72.2A	86.6A
Rated AC Grid Voltage	3L / (N) / PE, 127V / 220V								
AC Grid Voltage Range [1]	180V - 260V								
Rated Grid Frequency	50Hz / 60Hz								
Grid Frequency Range [2]	45Hz - 55Hz / 55Hz - 65Hz								
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8Lagging)								
THDi	<3% at rated power								
Efficiency									
Max. Efficiency	98.50%	98.50%	98.50%	98.50%	98.50%	98.50%	98.60%	98.50%	98.60%
Euro Efficiency	98.30%	98.30%	98.30%	98.30%	98.30%	98.30%	98.40%	98.30%	98.40%
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	47kg	44kg	44kg	44kg	47kg	47kg	47kg
Protection Degree	IP65								
Cooling	Fan								
Operating Temperature Range	- 30°C to +60°C (Derating at 45°C)								
Night Self Consumption	<1W								
Display	LED+APP								
Communication	RS485 (Meter / GEN), Wi-Fi								
Topology	Transformerless								
Certifications and Standards									
Grid Regulation	IEC61727, IEC62116, IEEE1547								
Safety	IEC62109-1 /-2; UL1741								
EMC	EN61000-6-1/2/3/4								

GRID-TIED INVERTER

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

INVERTER

Model	GT3-30KTM1	GT3-36KQM1	GT3-40KQM1	GT3-50KQM1	GT3-60KQM1
PV Input					
Max. PV Input Power	45000Wp	54000Wp	60000Wp	75000Wp	90000Wp
Max. PV Input Voltage	1100V				
Start – up Input Voltage	200V				
Nominal Input Voltage	720V				
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 Tackers	2 / 2 / 2	2 / 2 / 2 / 2			
AC Output					
Nominal AC Power	30000W	36000W	40000W	50000W	60000W
Max. Apparent Power	33000VA	39600VA	44000VA	55000VA	66000VA
Rated AC Grid Output Current	36.1A	43.3A	48.1A	60.1A	72.2A
Max. AC Output Current	39.7A	47.6A	52.9A	66.2A	79.4A
Rated AC Grid Voltage	3 / N / PE, 3 / PE, 277 / 480V				
AC Grid Voltage Range [1]	425 – 540V				
Rated Grid Frequency	50 / 60Hz				
Grid Frequency Range [2]	45-55 / 55 – 65Hz				
Power Factor	> 0.99 at rated power (Adjustable 0.8 Leading – 0.8 Lagging)				
THDi	< 3% at rated power				
Efficiency					
Max. Efficiency	98.80%	98.80%	98.80%	98.80%	98.80%
Euro Efficiency	98.40%	98.40%	98.40%	98.40%	98.40%
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	43kg	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), Wi-Fi				
Topology	Transformerless				
Certifications and Standards					
Grid Regulation	IEEE1547				
Safety / EMC	UL1741				