

## GRID-TIED INVERTER

### THREE PHASE:

GT3-30K D1, GT3-30K/33K/37K5 T1, GT3-36K/37K5/40K/50K/60K Q1  
 GT3-15K/20K/25K DL1, GT3-10K/15K/20K/30K TL1, GT3-25K/30K QL1  
 GT3-30KTM1, GT3-36K/40K/50K/60K QM1

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.

### Product Benefits

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

## GRID-TIED INVERTER

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

Model	GT3-30KD1	GT3-30KT1	GT3-33KT1	GT3-37K5T1	GT3-36KQ1	GT3-37K5Q1	GT3-40KQ1	GT3-50KQ1	GT3-60KQ1
<b>PV Input</b>									
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	3	3			4				
No. of Strings per MPP Trackers	2 / 2	2 / 2 / 2			2 / 2 / 2 / 2				
<b>AC Output</b>									
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 THDi	> 0.99 at rated power (Adjustable 0.8 Leading - 0.8 Lagging) <3% at rated power								
<b>Efficiency</b>									
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%								
<b>Protection</b>									
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								
<b>General Data</b>									
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								
<b>Certifications and Standards</b>									
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

INVERTER

Model	GT3-15KDL1	GT3-20KDL1	GT3-25KDL1	GT3-10KTL1	GT3-15KTL1	GT3-20KTL1	GT3-30KTL1	GT3-25KQL1	GT3-30KQL1	
<b>PV Input</b>										
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		
<b>AC Output</b>										
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									
<b>Efficiency</b>										
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%									
<b>Protection</b>										
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									
<b>General Data</b>										
Dimension (W*H*D)	613*481*251mm									
Weight	44kg	44kg	47kg	44kg	44kg	44kg	47kg	47kg	47kg	
Protection Degree	IP65									
Cooling	IEC62109-1 /-2; UL1741									
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									
<b>Certifications and Standards</b>										
Grid Regulation	IEC61727, IEC62116, IEEET1547									
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

INVERTER

Model	GT3-30KTM1	GT3-36KQM1	GT3-40KQM1	GT3-50KQM1	GT3-60KQM1
<b>PV Input</b>					
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		
<b>AC Output</b>					
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				
<b>Efficiency</b>					
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%				
<b>Protection</b>					
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				
<b>General Data</b>					
Dimension (W*H*D)	481*613*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				
<b>Certifications and Standards</b>					
Grid Regulation	IEEET1547				
Safety / EMC	UL1741				