



Grid Tied Inverter

Three Phase: GT3-17KL-D GT3-20K/25KL-T GT3-30KL-Q

Livolttek GT3 series three-phase string inverter low-voltage 17-30kW series, widely used in 220/230V grid commercial and power plant photovoltaic system applications, the maximum input current of each string on the PV side is 20A, and compatible with 600W+ photovoltaics in the global market components. Combined with MPPT's precise algorithm, it is ideal for commercial photovoltaic systems. An external inductor ensures efficient heat dissipation, which significantly increases reliability and extends the life of the inverter. In addition, support functions such as intelligent IV curve scanning and remote maintenance have brought long-term benefits.



Features

- String current up to 20A
- 150% DC/AC ratio
- Smart APP to monitor & optimize
- AFCI function (optional)
- Smart IV curve scanning
- Export limitation(optional)



Smart IV Curve Scanning



Support Export Limitation



Optional Internal Integrated AFCI Module



SPD II Protection

Compatible Products



Wi-Fi Dongle



Smart Meter



Monitoring System

Specifications

Model	GT3-17KL-D	GT3-20KL-T	GT3-25KL-T	GT3-30KL-Q
PV Input				
Max. PV Input Power	25500Wp	30000Wp	37500Wp	45000Wp
Start-up Input Voltage	150V	200V	200V	200V
MPPT Voltage Range	200V - 700V			
Nominal Input Voltage	750V			
Max.MPPT Input Current	38A/38A	38A/38A/38A	40A/40A/40A	38A/38A/38A/38A
Max.Short Circuit Current	48A/48A	48A/48A/48A	48A/48A/48A	48A/48A/48A/48A
No. of MPPTs	2	3	3	4
No. of Strings per MPPT	2/3	2/2/2	2/2/3	2/2/2/2
AC Output Data				
Max. Apparent Power	18700VA	22000VA	27500VA	33000VA
Nominal Output Power	17000W	20000W	25000W	30000W
Max.AC Output Current	48A	60A	80A	96A
Rated AC Grid Voltage	3/N/PE, 3/PE, 220/230V			
Grid Voltage Range	180-260Vac			
Nominal Output Frequency	50Hz/60Hz			
Grid Frequency Range	45Hz-55Hz/55-65Hz			
Output Power Factor	1 Default (Adjustable 0.8 Leading - 0.8 Lagging)			
THDi, Rated Power[%]	<3%			
Efficiency				
Max. Efficiency	98.40%	98.40%	98.40%	98.40%
Euro Efficiency	98.00%	98.10%	98.10%	98.10%
Protection				
PV Reverse Polarity Protection	Support			
PV Insulation Resistance Detection	Support			
AC Short Circuit Protection	Support			
AC Over Current Protection	Support			
AC Over Voltage Protection	Support			
Anti-Islanding Protection	Support			
Residual Current Detection	Support			
Over Temperature Protection	Support			
Surge Protection	Type II			
Smart IV Curve Scanning	Support			
Integrated AFCI (Arc-Fault circuit Interruption)	Optional			
General Data				
Dimension (W*H*D)	450*485*210 mm	710*470*236 mm		
Weight	26kg	44kg	44kg	51kg
Protection Degree	IP65			
Ambient Temperature Range	-25 °C ~ +60 °C			
Humidity Range	0-100%			
Communication Interface	RS485(Meter) , Wi-Fi, Wire Ethernet			
Cooling Concept	Fan Cooling			
Noise Emission	<51dB		<55dB	
Night Power Consumption	<1W			
Max. Operation Altitude	≤ 4000m			
Certifications and Standards				
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12			
Safety Standard	IEC/EN 62109-1/2			
Grid-connection	IEC61727,IEC62116, EN50549			