Grid Tied Inverter

Three Phase: $GT3-75/100/110/125K-1^{[1]}$ Upcoming

Livoltek GT3-75/100/110/125K-1 series inverters are widely deployed in commercial and industrial ground-mounted power stations. Featuring a brand-new intelligent fan cleaning design, they are well-suited for harsh desert conditions while also enhancing the product's service life. These inverters also boast exceptional compatibility, with a maximum input current of 40A, enabling them to work with 210+ high-current modules. Equipped with up to 10 MPPT precision algorithms, they can flexibly adapt to complex installation environments, thereby increasing power generation. Additionally, they support global MPPT scanning, built-in PID recovery, night SVG, and remote monitoring capabilities, providing customers with continuous, stable long-term service and maximised power generation benefits.

LIVOLTEK

Features

- Global MPPT scan function
- String current up to 40A
- AFCI function (optional)
- Night SVG function



Specifications

Technical Data	GT3 -36KL1	GT3 -40KL1	GT3 -50KL1	GT3 -60KL1	GT3 -75KL1	GT3 -75k-1	GT3 -100K-1	GT3 -110K-1	GT3 -125K-1	GT3 -125KH1	GT3 -150KH1
PV Input Data											
Max. DC Input Power [Wp]						150%					
Max. DC Input Voltage[V]	1100					1100				1100	
Min PV input voltage[V]	180					180				180	
Start-up DC Input Voltage[V]	200					200				200	
Nominal DC Input Voltage[V]	370					620				720	
MPPT Operating Range[V]	180-800					180-1000				180-1000	
Max. DC Input Current[A]	8*40	8*40	10*40	10*40	10*40	8*40	10*40	10*40	10*40	10*40	10*40
Max. Short Circuit current[A]	8*52	8*52	10*52	10*52	10*52	8*52	10*52	10*52	10*52	10*52	10*52
No. of MPPTs	8	8	10	10	10	8	10	10	10	10	10
No. of Strings per MPP Tackers	8*2	8*2	10*2	10*2	10*2	8*2	10*2	10*2	10*2	10*2	10*2
AC Output Data											
Nominal Output Power [W]	36000	40000	50000	60000	75000	75000	110000	110000	125000	125000	150000
Max. Apparent Power [VA]	39600	44000	55000	66000	82500	82500	110000	121000	137500	39600	165000
Rated AC Grid Output Current[A]	94.5	105.0	131.2	157.5	196.8	114.0	151.9	167.1	189.9	150.4	180.4
Max. AC Output Current[A]	103.9	115.5	144.3	173.2	216.5	125.3	167.1	183.8	208.9	165.4	198.5
Rated AC Grid Voltage[V]		3.	/ (N) /PE,2	20		3L/	N/PE, 3L/PE	, 380/400/4	15	3/ (N) /F	E,277/480
AC Grid Voltage Range①[V]	176-242					310-480				408-528	
Rated Grid Frequency [Hz]	50/60					50/60				50/60	
Grid Frequency Range@[Hz]	45-55/54-66 45-55/55-65								45-55	/54-66	
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)										
Output THDi (@Nominal Output)					<3	3%					
Efficiency											
Max. Efficiency[%]	98.80%	98.80%	98.80%	98.80%	98.80%	98.50%	98.50%	98.50%	98.50%	98.80%	98.80%
Euro Efficiency[%]	98.40%	98.40%	98.40%	98.40%	98.40%	98.30%	98.30%	98.30%	98.30%	98.40%	98.40%
MPPT Efficiency[%]						>99%					
Protection											
Integrated DC Switch	Support										
DC Reverse Polarity Protection	Support										
Surge Protection	Type II										
PV Current Detection	Support										
Insulation Resistor Detection	Support										
Output Over Current Protection	Support										
AC Short Circuit Protection	Support										
Output Over Voltage Protection	Support										
Anti-islanding Protection	Support										
Temperature Protection	Support										
Ground Fault Monitoring	Support										
Internal Over Voltage Protection	Support										
Input Over Current Protection	Support										
Grid Monitoring	Support										
Integrated PID recovery	Support										
Residual Current Monitoring Unit	Support										
AFCI Protection	Optional										
General Data											
Dimensions[W*H*D] [mm]					96	0*725*369					
Weight [kg]	87										
Mounting Information	Wall Mounting										
Protection Degree	IP65										
Operating Temperature Range [°C]	-30 °C +60 °C (derating at 45°C)										
Relative Humidity	0-100%										
Max. Operating Altitude[m]	4000(≥3000)										
Night Self Consumption [W]			<1				< 5				<1
Display					I	ED+APP					
Communication	RS485 (Meter/GEN) ,Wi-Fi										
Topology					Trai	nsformerles	S				
Certifications and Standards											
Grid Regulation	IEC61727, IEC62116 IEC61727, IEC62116, NRS 097, EN50549, NO.140 IEC61727, IEC62116										
C-f-+.	IEC62109-1/-2										
Safety	EN61000-6-1/2/3/4										
EMC					EN610	00-6-1/2/3/	4				