



LT- 40 / 50 K F1

Three Phase String Inverter

- 4 MPP trackers, Max. efficiency up to 98.7%
- Zero export application
- Offline configuration
- Wide output voltage range
- Built-in LCD display
- Smart Monitoring (Optional)

MODEL	LT-40K F1	LT-50K F1
Input Side		
Max. DC Input Power (kW)	52	65
Max. DC Input Voltage (V)	1000	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200–850	
Max. DC Input Current (A)	40+40+40	40+40+40+40
Max. Short Circuit Current (A)	60+60+60	60+60+60+60
No. of MPP Trackers	3	4
No. of Strings per MPP Tracker	3	
Output Side		
Rated Output Power (kW)	40	50
Max. Active Power (kW)	44	55
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V	
Rated Grid Frequency (Hz)	50/60 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	60.6/58	75.8/72.5
Max. AC Output Current (A)	66.7/63.8	83.3/79.7
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
Grid Frequency Range	47–52 lub 57–62 (Optional)	
Efficiency		
Max. Efficiency	98.7%	
Euro Efficiency	98%	
MPPT Efficiency	> 99%	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD 240x160	
Interface	RS485/RS232/WIFI/LAN	

MODEL	LT-40K F1	LT-50K F1
Protection		
DC Reverse-Polarity Protection	Yes	
AC Short Circuit Protection	Yes	
AC Output Overcurrent Protection	Yes	
Output Overvoltage Protection	Yes	
Insulation Resistance Protection	Yes	
Ground Fault Monitoring	Yes	
Anti-islanding Protection	Yes	
Temperature Protection	Yes	
Integrated DC Switch	Yes	
Remote software upload	Yes	
Remote change of operating parameters	Yes	
Surge protection	DC Type II/AC Type II	
General Data		
Size (mm), w/h/d	647.5x537x303.5	
Weight (kg)	44.5	
Topology	Transformerless	
Internal Consumption	<1W	
Running Temperature	-25–65°C, >45°C	
Protection Degree	IP65	
Noise Emission (Typical)	<50 dB	
Cooling Concept	Smart cooling	
Max. Operating Altitude Without Derating	2000 m	
Warranty	10 years	
Operating Surroundings Humidity	0–100%	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11, PN-EN 50549-1	