



LT-12/15/17/20K F2

3-Phase Inverters

- Max. efficiency 98.5%
- Wide voltage range and low startup voltage
- AFCI protection, proactively reduces fire risk
- IP66 rated
- Supports export power control
- Automatic voltage stabilization technology in weak grid conditions

MODEL	LT-12K F2	LT-15K F2	LT-17K F2	LT-20K F2
Input DC				
Max. input voltage [V]			1100	
Rated voltage [V]			600	
Start-up voltage [V]			180	
MPPT voltage range [V]			160-1000	
Max. input current [A]	32/32	32/32	32/32	32/32
Max. short circuit current [A]	40/40	40/40	40/40	40/40
MPPT number/				
Max. input strings number	2/4	2/4	2/4	2/4
Output AC				
Rated output power [kW]	12.0	15.0	17.0	20.0
Max. apparent output power [kVA]	13.2	16.5	18.7	22.0
Max. output power [kW]	13.2	16.5	18.7	22.0
Rated grid voltage [V]	3/N/PE, 220 / 380 , 230 / 400			
Rated grid frequency [Hz]	50/60			
Rated grid output current [A]	18.2/17.3	22.8/21.7	25.8/24.6	30.4/28.9
Max. output current [A]	19.1	23.8	27.0	31.8
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	< 2%			
Efficiency				
Max. efficiency	98.3%	98.3%	98.5%	98.5%
EU efficiency	97.7%	97.7%	97.9%	97.9%
Features				
DC connection	Staubli MC4 connector			
AC connection	Quick connection plug			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			

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Protection				
DC reverse-polarity protection			Yes	
Short circuit protection			Yes	
Output over current protection			Yes	
Surge protection			Yes	
Grid monitoring			Yes	
Anti-islanding protection			Yes	
Temperature protection			Yes	
Integrated AFCI (DC arc-fault circuit protection)			Yes (1)	
Integrated DC switch			Yes	
General Data				
Dimensions [W*H*D mm]			310*563*219	
Weight [kg]			17.8	
Topology			Transformerless	
Self-consumption (night) [W]			< 1	
Operating ambient temperature range [°C]			-25 ~ +60	
Relative humidity			0 - 100%	
Ingress protection			IP66	
Cooling concept			Natural convection	
Max. operation altitude [m]			4000	
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530			
Safety/EMC standard	EC62109-1/-2, IEC62116 & IEC 61000-6-1/-2/-3/-4			
(1) Activation required				