



LS-2.5/3/3.6/4/4.6/5/6K F2

Single Phase Inverter

- 2 MPPT design with precise MPPT algorithm
- Wide voltage range and low startup voltage
- Super high frequency switching technology
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight

MODEL LS-2.5K F2 LS-3K F2 LS-3.6K F2 LS-4K F2 LS-4.6K F2 LS-5K F2 LS-6K F2

Input DC							
Max. Input Power (kW)	3.75	4.5	5.4	6.0	6.9	7.5	9.0
Max. Input Voltage (V)	550	600	600	600	600	600	600
Rated Voltage (V)	250	300	300	300	300	300	300
Start-up Voltage (V)	60	120	120	120	120	120	120
MPPT Voltage Range (V)	50~450	90~520	90~520	90~520	90~520	90~520	90~520
Max. Input Current (A)	2x14						
Max. Short Circuit Current (A)	2x22						
No. of MPP Trackers	2						
No. of Strings per MPP Tracker	2						
Output AC							
Rated Output Power (kW)	2.5	3.0	3.6	4.0	4.6	5.0	6.0
Max. Apparent Output Power (kVA)	2.8	3.3	4.0	4.4	5.0	5.0	6.0
Max. Output Power (kW)	2.8	3.3	4.0	4.4	5.0	5.0	6.0
Rated Grid Voltage (V)	1/N/PE, 220/30						
Rated Grid Frequency (Hz)	50/60						
Rated Grid Output Current (A)	11.4/10.9	13.6/13.0	16.0/15.7	18.2/17.4	20.9/20.0	22.7/21.7	27.3
Max. Output Current (A)	13.3	15.7	16.0	21.0	23.8	25.0	27.3
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						
Efficiency							
Max. Efficiency	97.3%	97.3%	97.3%	97.6%	97.6%	97.7%	97.7%
Euro Efficiency	96.5%	96.6%	96.6%	97.1%	97.1%	97.7%	97.7%

Features	
DC Connection	Stäubli MC4 EVO 2
AC Connection	Quick Connection Plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, LAN

MODEL LS-2.5K F2 LS-3K F2 LS-3.6K F2 LS-4K F2 LS-4.6K F2 LS-5K F2 LS-6K F2

Protection	
DC Reverse-Polarity Protection	Yes
Short Circuit Protection	Yes
Output Over Current Protection	Yes
Surge Protection	DC Type II / AC Type II
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 (WxHxD mm)	310x543x160
Weight (kg)	11.0 11.2 11.2 12.0 12.0 12.0 12.0
Topology	Transformerless
Self-consumption (night)	<1 W
Operating Ambient Temperature Range (°C)	-25~+60
Relative Humidity	0-100%
Ingress Protection	IP66
Cooling Concept	Natural Convection
Max. Operation Altitude (m)	4000
Grid Regulation	G98 ²⁾ , G99, VDE-AR-N-4105, /VDE V 0124, EN50549-1 VDE 0126/UTE C 15/VFR: 2019, RD 1699/RD244/UNE206006/ UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018 .2, IEC61727, IEC60068, IEC 61683, EN50530, MEA, PEA
Safety EMC / Standard	IEC/EN 62109-1/2, EN 61000-6-1/2/3/4

1) Activation required. 2) G98 for 2.5K-3.6K.