

REFU*sol* 110 / 125K-10T

Innovation that flows

- 10 MPP trackers
- Max. Efficiency up to 98.6 %
- 150 % DC overload
- PID Recovery
- String Monitoring per MPPT



The newly developed **REFU***sol* 110K/125K inverter was specifically designed for maximum flexibility in commercial and industrial PV systems. With its 10 MPP trackers, it enables the realization of a wide variety of system designs. The inverter is ideal for medium-sized and large-sized projects.

Each inverter can be individually connected via the REFUlog portal for remote monitoring, configuration and updates. During the **10-year warranty** period, the REFUlog portal is provided free of charge with each inverter. Ethernet or WiFi loggers are available for easy integration into local networks.



Art. No.	REFU <i>sol</i> 110K-10T 854P110	REFU <i>sol</i> 125K-10T 854P125
DC DATA		
Max. recommended PV power (kWp)	150	165
Max. input voltage (V)	1100	1100
Rated input voltage (V)	625	625
Start-up input voltage (V)	200	200
Operating voltage range (V)	180 - 1000	180 - 1000
MPPT voltage range (V)	500 - 890	500 - 890
Number of independent MPPT	10	10
Number of DC inputs	2 for each MPPT	2 for each MPPT
Max. current per MPPT (A)	40	40
Max. short circuit current per MPPT (A)	50	50
DC connection	MC4	MC4

AC DATA		
Rated power (kW)	100	110
Max. AC power (kVA)	110 @ 45°C / 100 @ 50°C	125 @ 45°C / 110 @ 50°C
Max. output current (A)	167.2A@380V / 159.5A@400V / 153.1A@415V	190A@380V / 181.2A@400V / 174A@415V
Nominal grid voltage (V)	3P/N/PE: 380V / 400V / 415V	3P/N/PE: 380V / 400V / 415V
Grid voltage range (V)	310 - 480	310 - 480
Nominal grid frequency (Hz)	50, 60	50, 60
Grid frequency range (Hz)	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Active power adjustable range (%)	0 - 100	0 - 100
Total harmonic distortion (THDi) (%)	< 1 (@ 100% Power)	< 1 @ 100% Power)
Adjustable power factor range	1 (0.8 inductive ... 0.8 capacitive)	1 (0.8 inductive ... 0.8 capacitive)
AC connection	AC Terminal Blocks	AC Terminal Blocks

PERFORMANCE		
Max. efficiency (%)	98.6	
EU efficiency (%)	98.3	

PROTECTION		
DC switch	integrated	
Safety protection	Anti-islanding, DC reverse polarity, leakage current protection, Ground fault monitoring , PV-array string fault monitoring, RCMU, Overtemperature, Overvoltage, Overcurrent protection.	
String monitoring	each MPPT	
Protection class / overvoltage category	Class I / DC and AC: Type II standard	
SPD	DC: Type II/AC: Type II	
AFCI / PID recovery	Yes / Yes	

COMMUNICATION		
RS485 / USB	yes / yes	
Ethernet / WiFi	optional (Art. No. 924024) / optional (Art. No. 924025)	

GENERAL DATA		
Ambient temperature (°C)	-30 ... +60	
Self-consumption at night (W)	< 3	
Topology	transformerless	
Type of protection	IP66	
Allowable rel. air humidity range (%)	0 ... 100	
Max. operating latitude (m above sea level)	4000 (derating above 3000)	
Weight (kg)	75	
Cooling	Active	
Dimension (H x W x D) (mm)	695 x 970 x 325	
Display	LCD	
Certification	EN/IEC 61000-6-2 / 4, EN/IEC 62109-1 / 2, IEC62116, IEC 61727, IEC61683, IEC 60068 -2(1, 2, 14, 30), V 0126-1-1, VDE-AR-N 4105, CEI 0-21, UTE C15-712-1, CEI 0-21/16, NTS 631, UNE 217 001, UNE 217 002, EN 50549-1, G99, C10/11, EN 50549, EN 50530, RD647, VDE 4110	
Warranty	10 years	