

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.

Inverters can be easily integrated into local networks using various connection options such as Ethernet or WiFi loggers. A dedicated online platform, **REFU*view***, enables efficient remote monitoring and ensures reliable system oversight throughout the warranty period. As part of continuous product development, **REFU*view*** offers a modern interface and improved functionality to support seamless connectivity and detailed performance insights.



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