

## 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
<b>DC DATA</b>		
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

<b>AC DATA</b>		
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

<b>PERFORMANCE</b>	
Max. efficiency (%)	98.6
EU efficiency (%)	98.3

<b>PROTECTION</b>	
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

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

<b>GENERAL DATA</b>	
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