

## REFU*sol* 25K / 33K-3T

Red at heart, green at the finish line

- 3 MPP trackers
- Max. Efficiency up to 98.6 %
- Long-lasting AC overload capacity of 110 %
- Compatible with older REFU*sol* inverters
- Suitable for repowering applications



The innovative **REFU*sol* 25K / 33K** inverter offers an advanced solution for commercial and industrial PV systems. With its 3 MPP trackers, it can be adapted to different system designs and individual requirements. Thanks to its compact design and high power density per weight, it is extremely versatile, whether on the roof or in ground-mounted systems. This inverter is ideal for small to medium-sized projects.

The simple integration of each inverter via the REFUlog portal enables efficient remote monitoring. The REFUlog portal is provided free of charge during the generous **10-year warranty** period. Various options such as Ethernet or WiFi loggers are available for uncomplicated connection to local networks.



Art. No.	REFU <i>sol</i> 25K-3T 853P025	REFU <i>sol</i> 33K-3T 853P033
<b>DC DATA</b>		
Max. recommended PV power (kWp)	37.5	49.5
Max. input voltage (V)	1100	1100
Rated input voltage (V)	620	620
Start-up input voltage (V)	200	200
Operating voltage range (V)	180 - 1000	180 - 1000
MPPT voltage range (V)	480 - 850	510 - 850
Number of independent MPPT	3	3
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)	25	33
Max. AC power (kVA)	28	37
Max. output current (A)	42.4	56
Nominal grid voltage (V)	3P/N/PE: 230/400	3P/N/PE: 230/400
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) (%)	< 3	< 3
Adjustable power factor range	1 (0.8 inductive ... 0.8 capacitive)	1 (0.8 inductive ... 0.8 capacitive)
AC connection	OT (M6)	OT (M6)
<b>PERFORMANCE</b>		
Max. efficiency (%)	98.6	
EU efficiency (%)	98.2	
<b>PROTECTION</b>		
DC switch	integrated	
Safety protection	Anti-islanding, DC reverse polarity, Anti reverse power function, Ground fault, RCMU, Overtemperature, Overvoltage, Overcurrent.	
String monitoring	each MPPT	
Protection class / overvoltage category	Class I / DC and AC: Type II standard	
<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 (IEC 60529)	IP65	
Allowable rel. air humidity range (%)	0 ... 100	
Max. operating altitude (m)	4,000	
Noise level (dBA)	< 60	
Weight (kg)	36	
Cooling	Active	
Dimension (H x W x D) (mm)	480 x 585 x 220	
Display	LCD	
Certification	EN/IEC 61000-6-1 / 2 / 3 / 4, EN/IEC 62109-1 / 2, IEC62116, IEC 61727, IEC61683, IEC 60068 (1, 2, 14, 30), V 0126-1-1, VDE-AR-N 4105, CEI 0-21, UNE 217 002, EN 50549-1, G99, NRS 097-2-1, VDE 4110	
Warranty	10 years	