

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 in-verter is ideal for small to medium-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 sol 25K-3T 853P025	REFU sol 33K-3T 853P033
DC DATA		
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
AC DATA		
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)
PERFORMANCE		
Max. efficiency (%)	98.6	
EU efficiency (%)	98.2	
PROTECTION		
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	
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 (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	