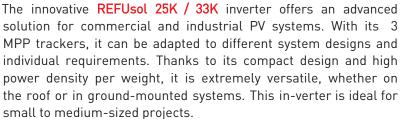


## REFUsol 25K/33K-3T

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 REFUsol inverters
- Suitable for repowering applications



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





## TECHNICAL DATA

Max. operating altitude (m)

Dimension (H  $\times$  W  $\times$  D) (mm)

Noise level (dBA)

Weight (kg)

Cooling

Display

Certification

Warranty



	energy for the	
Art. No.	REFUsol 25K-3T 853P025	REFUsol 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	
Accordance retain manualty range (70)	0 100	

20240304\_REFUsol 25K-33K-3T\_Datasheet\_EN\_V02

4,000

< 60

36

Active

 $480\times585\times220$ 

LCD 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

10 years