

REFU*sol* 250K-6T

Reliable. Connecting. Visionary.

- 6 -MPP trackers
- I-V curve scan
- High safety string breaking protection
- Full power up to 50°C



The **REFU***sol* 250K inverter has been specially designed for maximum flexibility in industrial and utility PV systems. With its 6 MPP trackers, it enables the realization of a wide variety of system designs.

These inverters are specially designed for PV plants where high temperature, reliability and cost efficiency are on high demand.

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** 250K-6T
850P250

DC DATA

Max. recommended PV power (kWp)	375
Max. input voltage (V)	1500
Rated input voltage (V)	1160
Start-up input voltage (V)	550
DC voltage range (V)	500 - 1500
MPPT voltage range (V)	860 - 1300
Number of independent MPPT	6
Number of DC inputs	24 (4 / MPPT)
Max. current per MPPT (A)	60
Max. short circuit current per MPPT (A)	100
DC connection	MC4

AC DATA

AC output power (kVA)	250 @ 50°C
Max. output current (A)	180.5
Nominal grid voltage (V)	3P/PE: 800
Grid voltage range (V)	640 - 920
Nominal grid frequency (Hz)	50, 60
Grid frequency range (Hz)	45 - 55 / 55 - 65
Active power adjustable range (%)	0 - 100
Total harmonic distortion (THDi) (%)	< 3
Adjustable power factor range	1 (0.8 inductive ... 0.8 capacitive)
AC connection	AC Terminal Blocks

PERFORMANCE

Max. efficiency (%)	99.05
EU efficiency (%)	98.8

PROTECTION

DC switch	integrated
Safety protection	Anti-islanding, DC reverse polarity, Ground fault, PV-array string fault monitoring, RCMU, Overtemperature, Overvoltage, Overcurrent
String monitoring	each MPPT
Protection class / over-voltage category	Class I / DC : OVC II and AC: OVC III
SPD	DC: Type II / AC: Type II
AFCI / PID	yes / yes

COMMUNICATION

RS485 / USB	yes/ yes
Ethernet / WiFi	optional
PLC	yes (integrated)

GENERAL DATA

Ambient temperature (°C)	-30 ... +60
Self-consumption at night (W)	< 3
Topology	transformerless
Type of protection (IEC 60529)	IP66
Allowable rel. air humidity range (%)	0 ... 100
Max. operating latitude (m)	4000
Weight (kg)	111
Cooling	Intelligent air cooling
Dimension [H × W × D] (mm)	828 × 1159 × 366
Display	LED & Bluetooth + App
Certification	CE LVD/IEC62109, EN62109-1/2, EN50549-1/2, VDE-AR-N 4110/4120, CE EMC / IEC61000, EN61000-6-2/4, IEC62116, IEC61727, IEC60068, IEC61683, EN 62311:2008, EN 300 328 V2.1.1, EN 301 489-17 V3.1.1, EN 301 489-1 V2.1.1
Warranty	10 years