

REFU*sol* 20K-2T

New flexibility meets compatibility

- 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* 20K** inverter offers a modern solution for commercial and industrial PV systems. With its 2 MPP trackers, it enables flexible adaption to different system designs and individual requirements. Its compact design and high power density per weight make it extremely versatile, whether on roofs or in ground-mounted systems. This inverter is the ideal choice for small to medium-sized projects. It is also compatible with legacy REFU*sol* inverters.

The easy integration of each inverter via the REFUlog portal enables effective 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.



**REFU 20K-3T
853P020**

Art. No.

DC DATA

Max. recommended PV power (kWp)	30
Max. input voltage (V)	1100
Rated input voltage (V)	650
Start-up input voltage (V)	160
Operating input voltage range (V)	140 - 1000
MPPT voltage range (V)	480 - 850
Number of independent MPPT	2
Number of DC inputs	2 for each MPPT
Max. current per MPPT (A)	26
Max. short circuit current (A)	36 / 36
Max. power per MPPT input (kW)	15
DC connection	MC4

AC DATA

Rated power (kW)	20
Max. AC power (kVA)	22
Max. output current (A)	31,9
Nominal grid voltage (V)	3P/N/PE: 220/380, 230/400
Grid voltage range (V)	310 - 480
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	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 (> 45 derating)
Self-consumption at night (W)	< 1
Topology	transformerless
Type of protection (IEC 60529)	IP65
Allowable rel. air humidity range (%)	0 ... 100
Max. operating latitude (m above sea level)	4000
Noise level (dBA)	< 40
Weight (kg)	22
Cooling	Active
Dimension (H x W x D) (mm)	430 x 520 x 189
Display	LCD
Certification	EN 61000-6-1, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12 IEC 62109-1 / 2, IEC62116, IEC 61727, IEC61683, IEC 60068 (1, 2, 14, 30) VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, G98 / G99, EN 50530
Warranty	10 years