

REFU*sol* 22K-JP

The new generation

- Lightweight & compact
- Natural convection cooling
- JET compliant

Based on the line of innovative and efficient REFU*sol* 08...23K inverters, we developed our REFU*sol* 22K-JP especially for the Japanese market.

The new generation is based on the successful platform which delivers maximum yields with no maintenance. Working hand-in-hand with our customers, we have further improved the devices, making them even more future-proof, user-friendly and reliable. The string inverter with 22 kW power is the perfect match for any commercial and utility PV plant size, like rooftop systems, parking shade structures and large ground mounted systems. With its separated combiner box it can be used in any plant design.

Integrated into the system are highly precise MPP tracking from REFU*sol* and a data logger for direct connection to the online monitoring system REFUlog. A graphical display, Ethernet connection and RS485 interface simplify commissioning and system monitoring.



Art. No.

REFUsol 22K-JP
875P022.000

DC DATA

Max. recommended PV power (kWp)	30
MPPT Range /MPPT Range at nominal power (V)	250 ... 950 / 550 ... 850
Max. DC voltage (V)	1,000
DC nominal voltage (V)	720
DC start-up voltage (V)	200
Max. operating input current DC (A)	44
Max. short circuit current (A)	80
MPP trackers	1
String fuses	external
No. DC inputs	1

AC DATA

AC nominal power (kW)	22
AC grid connection /Feed-in phases	3 AC 440V Y+N
Nominal power factor /Range	1 / 0.8i ... 0.8c
Nominal voltage AC (V)	440
Voltage range AC (V)	352 ... 528
Nominal frequency /Frequency range (Hz)	50, 60 /45 ... 65
Max. AC current (A)	3 x 29
Short circuit fault current (A)	29
Max. THD (%)	1.8
Max. efficiency (%)	98.2
Weighted efficiency (%)	98.0
Feed-in from /Self consumption night (W)	20 / < 0.5

AMBIENT CONDITIONS

Cooling	natural convection
Ambient temperature /at full power (°C)	- 25 ... + 60 / - 25 ... + 50
Rel. air humidity (%)	0 ... 100
Noise (dBA)	< 45
Type of protection	IP65

SAFETY AND PROTECTION

DC switch /Isolation monitoring	yes/yes
Grid monitoring	Voltage, frequency, anti-islanding, DC injection
Grid separation	Redundant Grid Relay according to VDE 0126-1-1
Residual Current Monitoring (RCD)	yes
Internal overvoltage protection	Type 3

GENERAL DATA

Interfaces	Ethernet, RS485, temperature and irradiation sensor, OVGR remote stop signal
Dimensions W x H x D /Weight (mm, kg)	530 x 600 x 270 / 38.4

No responsibility is taken for the correctness of this information. Subject to modification.