



PV MICROINVERTER SERIES

Four-input platform for four PV modules

FDE1800

FDE2000

FDE2200

4 PV INPUTS

PV CHANNELS

1,800-2,200 W

AC OUTPUT

UP TO 670 W

PV MODULE POWER

97%

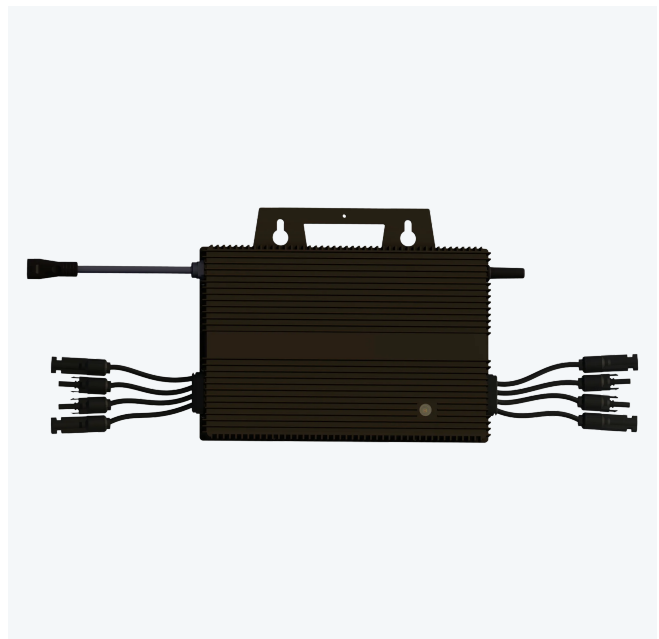
PEAK EFFICIENCY

IP67

PROTECTION RATING

Wi-Fi 2.4 GHz

BLUETOOTH 4.2



KEY FEATURES

Compact four-module platform with passive cooling.

FDE1800 / FDE2000 / FDE2200



TECHNICAL SPECIFICATIONS

FDE1800, FDE2000 and FDE2200 - shared platform with distinct output classes

INPUT DATA (DC)

SPECIFICATION	FDE1800	FDE2000	FDE2200
Recommended PV module power (STC)	400-625 W × 4	580-640 W × 4	595-670 W × 4
MPPT voltage range		33-48 V	
Operating voltage range		16-60 V	
Maximum input voltage		65 V	
Maximum input current	15 A × 4	15 A × 4	15 A × 4

OUTPUT DATA (AC)

SPECIFICATION	FDE1800	FDE2000	FDE2200
Maximum continuous output power	1,800 W	2,000 W	2,200 W
Nominal output voltage / range*		230 V / 195-264 V	
Adjustable output voltage range		184-276 V	
Nominal output current	8.13 A	9.04 A	9.94 A
Nominal output frequency / range*		50 Hz / 47.5-51.5 Hz	
Adjustable output frequency range		47-52 Hz	
Output power factor		>0.99 default	
Maximum units per 30 A branch**	3	3	3

EFFICIENCY

Peak efficiency	97%
CEC efficiency	96.7%
Nominal MPPT efficiency	99.5%
Night power consumption	20 mW

FEATURES

Communication (inverter to ECU)	Wi-Fi 2.4 GHz / BT 4.2
Isolation design	High-frequency transformers, galvanic isolation

MECHANICAL DATA

Operating ambient temperature range	-40 °C to +65 °C
Storage temperature range	-40 °C to +85 °C
Dimensions (W × H × D)	329.5 × 265.9 × 35 mm
Weight	4.09 kg
DC connector type	MC4 compatible
Cooling	Natural convection - fanless
Enclosure protection rating	IP67

DECLARED STANDARDS

Electrical safety · IEC 62109-1 / IEC 62109-2
Grid connection · VDE 4105 / EN 50549-1
EMC · EN 61000-6-1 / -6-3 / -3-3 / -3-2
Radio & communication · EN 300 328 / EN 62311

Additional source radio-standard designation requires confirmation.

Applicable conformity evidence and approvals should be confirmed for the exact model and target market.

* Nominal voltage and frequency ranges may be adjusted according to local grid requirements.

** Maximum units per branch may vary according to local installation requirements.