



PV MICROINVERTER SERIES

Dual-MPPT platform for two PV modules

FDE900

FDE1000

FDE1100

2 MPPT

INDEPENDENT

900-1,100 W

AC OUTPUT

UP TO 720 W

PV MODULE POWER

97%

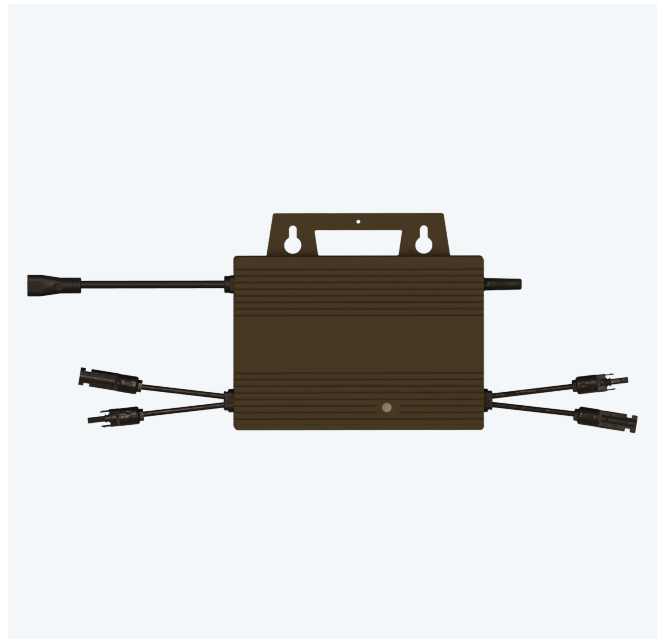
PEAK EFFICIENCY

IP67

PROTECTION RATING

Wi-Fi 2.4 GHz

BLUETOOTH 4.2



KEY FEATURES

Compact dual-module platform with independent MPPTs and passive cooling.

FDE900 / FDE1000 / FDE1100



TECHNICAL SPECIFICATIONS

FDE900, FDE1000 and FDE1100 - shared platform with distinct output classes

INPUT DATA (DC)

SPECIFICATION	FDE900	FDE1000	FDE1100
Recommended PV module power (STC)	360-600 W × 2	400-670 W × 2	500-720 W × 2
MPPT voltage range		33-48 V	
Operating voltage range		22-60 V	
Maximum input voltage		65 V	
Maximum input current	15 A × 2	16 A × 2	17 A × 2

OUTPUT DATA (AC)

SPECIFICATION	FDE900	FDE1000	FDE1100
Maximum continuous output power	900 W	1,000 W	1,100 W
Nominal output voltage / range*		230 V / 195-264 V	
Adjustable output voltage range		184-276 V	
Nominal output current	4.06 A	4.52 A	4.81 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**	7	6	6

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)	305 × 229 × 36 mm
Weight	3.3 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 301 489-1/-17 / EN 300 328 / EN 62311

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.