



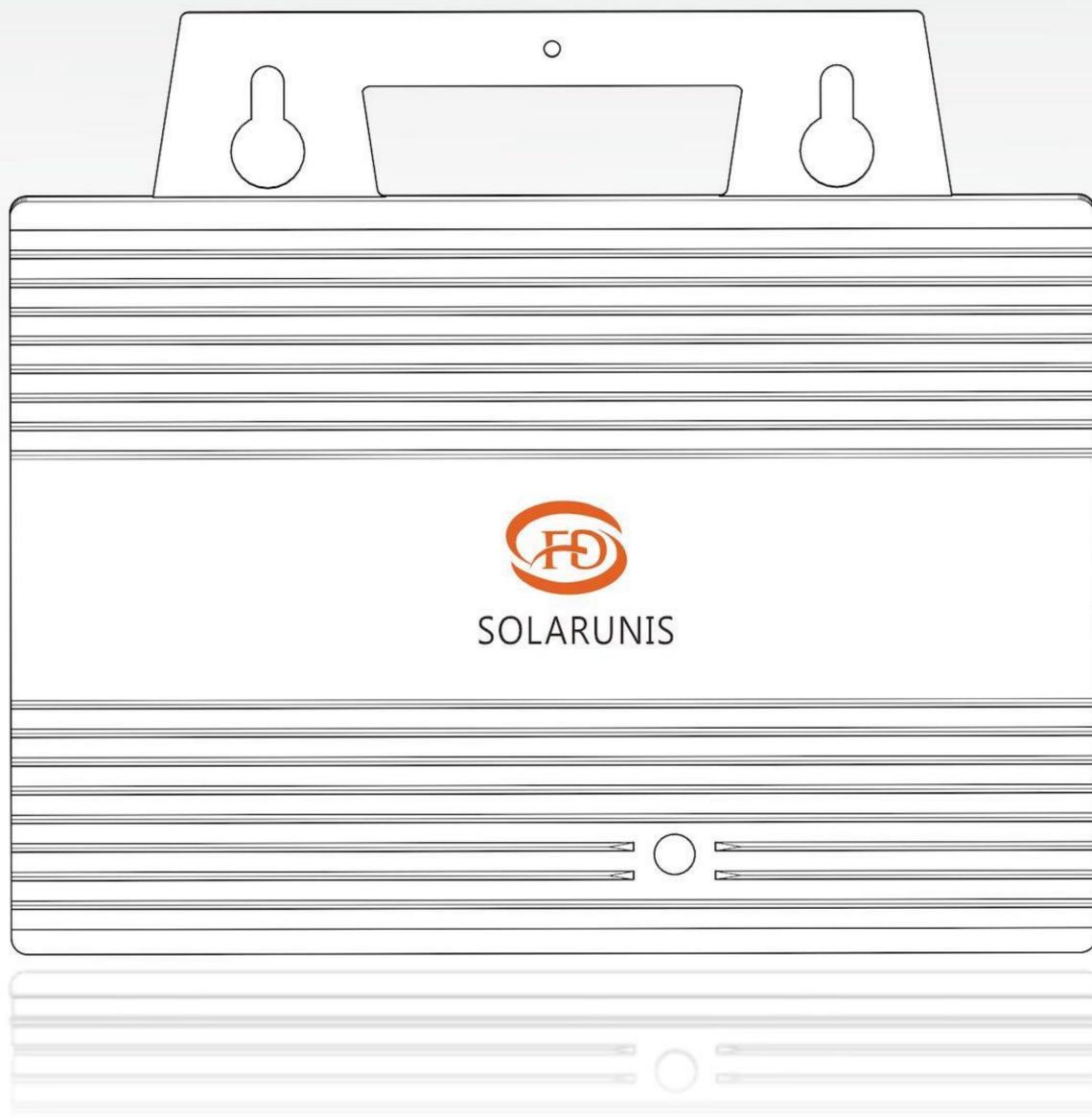
SOLARUNIS

# MPV MICROINVERTER

FDE900

FDE1000

FDE1100



- Safety
- Anti-low light effects
- High Efficiency
- Flexibility
- No buckets effect
- Easy and simple installation

Solarunis FDE series microinverter is the safest choice of the solar PV system on the building or integrated into the building, is also the most cost-efficient solar solution in the long run. It can connect up to 2 panels simultaneously while meeting the latest safety and grid-connection regulations. Perfect suitable to divers residential and commercial application scenarios.

# FDE Series Microinverter

| Model | FDE900 | FDE1000 | FDE1100 |
|-------|--------|---------|---------|
|-------|--------|---------|---------|

## Input Data (DC)

|   |                |                |                |
|---|----------------|----------------|----------------|
| Recommended PV Module Power (STC) Range | 360Wp+ - 600Wp | 400Wp+ - 670Wp | 500Wp+ - 720Wp |
| Peak Power Tracking Voltage             | 33V-48V        |                |                |
| Operating Voltage Range                 | 22V-60V        |                |                |
| Maximum Input Voltage                   | 65V            |                |                |
| Maximum Input Current                   | 15A x 2        | 16A x 2        | 17A x 2        |

## Output Data (AC)

|                                   |                    |       |       |
|-----------------------------------|--------------------|-------|-------|
| Maximum Continuous Output Power   | 900W               | 1000W | 1100W |
| Nominal Output Voltage/Range*     | 230V/195-264V      |       |       |
| Adjustable Output Voltage Range   | 184V-276V          |       |       |
| Nominal Output Current            | 4.06A              | 4.52A | 4.81A |
| Nominal Output Frequency/ Range*  | 50Hz/47.5Hz-51.5Hz |       |       |
| Adjustable Output Frequency Range | 47Hz-52Hz          |       |       |
| Output Power Factor               | >0.99 default      |       |       |
| Maximum Units per 30A Branch**    | 7                  | 6     |       |

## Efficiency

|                         |       |
|-------------------------|-------|
| Peak Efficiency         | 97%   |
| CEC Efficiency          | 96.7% |
| Nominal MPPT Efficiency | 99.5% |
| Night Power Consumption | 20mW  |

## Mechanical Data

|                                     |                              |
|-------------------------------------|------------------------------|
| Operating Ambient Temperature Range | -40 °C to +65 °C             |
| Storage Temperature Range           | -40 °C to +85 °C             |
| Dimensions (W x H x D)              | 305mm X 229mm X 36mm         |
| Weight                              | 3.3kg                        |
| DC Connector Type                   | MC4 compatible               |
| Cooling                             | Natural Convection - No Fans |
| Enclosure Environmental Rating      | IP67                         |

## Features

|                                 |  |
|---------------------------------|--|
| Communication (Inverter To ECU) | WiFi2.4G BT4.2                                     |
| Isolation Design                | High Frequency Transformers, Galvanically Isolated |
| Energy Management               | Solarunis Cloud 1.0                                |

## Compliances

|             |   |
|-------------|---|
| Compliances | IEC62109-1; IEC62109-2; VDE 4105; EN50549-1<br>EN61000-6-1; EN61000-6-3; EN61000-3-3; EN61000-3-2<br>EN301 498-1/17; EN300 328; EN62311 |
|-------------|---|