



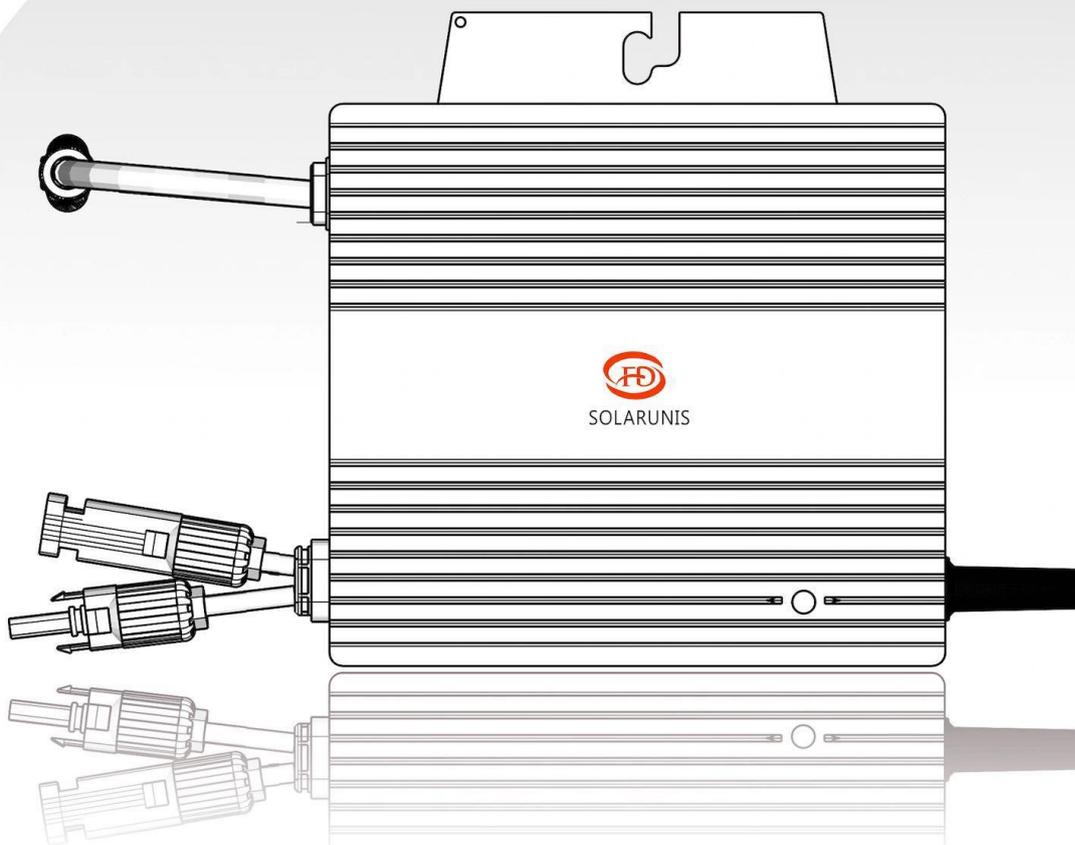
SOLARUNIS

PV MICROINVERTER

FDE550

FDE600

FDE650



- Safety
- High Efficiency
- No buckets effect
- Anti-low light effects
- Flexibility
- 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 to 1 panel while meeting the latest safety and grid-connection regulations. Perfect suitable to divers residential and commercial application scenarios.

FDE Series Microinverter

Model	FDE550	FDE600	FDE650
Input Data (DC)			
Recommended PV Module Power (STC) Range	400Wp+ - 625Wp	580Wp+ - 640Wp	595Wp+ - 670Wp
Peak Power Tracking Voltage	33V-48V		
Operating Voltage Range	16V-60V		
Maximum Input Voltage	65V		
Maximum Input Current	15A x 1		
Output Data (AC)			
Maximum Continuous Output Power	550W	600W	650W
Nominal Output Voltage/Range*	230V/195-264V		
Adjustable Output Voltage Range	184V-276V		
Nominal Output Current	2.49A	2.71A	2.93A
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**	12	11	10
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)	186.5mm X 201mm X 32mm		
Weight	1.6kg		
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 EN61000-6-1; EN61000-6-3; EN61000-3-3; EN61000-3-2 EN301 498-1/17; EN300 328; EN62311		

*Nominal voltage/frequency range can be extended beyond nominal if required by the utility.
 **Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.
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