



Microinverter

## Model EVT300

- ### Highlights
- ◆ Improved safety level
  - ◆ High-quality energy harvest with individual MPPT
  - ◆ No single-point failure
  - ◆ Serial design - Plug & Play easy installation
  - ◆ Lifetime free remote monitoring at module level

The EVT microinverter as a cutting-edge spokesman for the microinverters in the new era, has full sincerity and devotion to stability, details and more advanced tech. The EVT microinverter seeks to enable best improved solar energy harvest, highest possible reliability, much simplified installation and most efficient management of solar power systems.

Each EVT microinverter is individually connected to one/two solar panel(s) with every MPPT(Maximum Power Point Tracking) respectively for every panel. This unique configuration minimizes the negative impact from environment such as shading, dust, orientation or panel aging and eliminates the possibility of single-point failure, thus improving the system's harvest to largest extent.

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### Microinverter Datasheet

| Model                         | EVT300   |
|-------------------------------|--|
| <b>Input Data (DC)</b>        |  |
| Max. DC Input (V)             | 54 V   |
| Isc PV (Absolute Max.) (A)    | 15 A   |
| Operating Range (V)           | 18 V-54V   |
| Max. Input Current (A)        | 12A  |
| MPPT Voltage Range (V)        | 24-45V   |
| <b>Output Data (AC)</b>       |  |
| Normal Voltage (Vac)          | 220V/230V  |
| Frequency (Hz)                | 50Hz/60Hz  |
| Current (Max. continuous) (A) | 1.36A  |
| Power (Max. continuous) (W)   | 300 W  |
| Power Factor (Rated/default)  | >0.99  |
| Total Harmonic Distortion     | <3%  |
| Maximum Units Per Branch      | 20 Units (12AWG Cable)   |
| <b>Efficiency</b>             |  |
| Peak Inverter Efficiency      | 95.4%  |
| EURO Weighted Efficiency      | 95%  |
| MPPT Efficiency               | 99.9%  |
| Nighttime Power Consumption   | <100 mW  |
| <b>Features</b>               |  |
| Communication                 | PLCC(Power Line Carrier Communication)   |
| Compliance                    | VDE-AR-N 4105, VDE0126-1-1, UTE C15-712-1, EN50438, IEC/EN62109-1/2, IEC/EN61000, AS4777, IEC61727, IEC61683, IEC62116 |
| Lifetime                      | 25 Years   |
| <b>Others</b>                 |  |
| Ingress Protection (IP)       | IP 67  |
| Protective Class              | Class I  |
| Temperature(°C)               | -40°C to +65°C   |
| Relative Humidity             | 0% - 98%   |
| Overvoltage Category          | OVC III (AC Main), OVC II (PV)   |
| Inverter Isolation            | <input type="checkbox"/> Non-isolated <input checked="" type="checkbox"/> High frequency isolated                      |
| Weight                        | 1.8kg  |
| Dimensions                    | 163mm*216mm*27mm   |