

**Microinverter**  
Model EVT248

**Microinverter**  
Model EVT500

## Highlights

- ◆ High-quality energy harvest with high MPPT accuracy
- ◆ Concentrated reliability and stability
- ◆ No single-point failure
- ◆ Improved safety with integrated complete set of protection functions
- ◆ Lifetime free remote monitoring at solar panel's level
- ◆ Flexibly adapted to almost all 60-cell or 72-cell panels
- ◆ Easy installation
- ◆ Long life time

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.

## Microinverter Datasheet

Model	EVT248	EVT500
<b>Input Data (DC)</b>		
Recommended maximum input power (STC)	300W	300W*2
Maximum input DC voltage	54V	54V
Start voltage	24V	24V
Peak power tracking range	28V~42V	28V~42V
Operating range	18V~54V	18V~54V
Maximum DC short circuit current	15A	15A
Maximum input current	9.5A	9.5A*2
<b>Output Data (AC)</b>		
Rated output power	248W	500W
Maximum output current	1.07A	2.17A
Nominal voltage	220V/230V/240V	220V/230V/240V
Nominal frequency	50Hz/60Hz	50Hz/60Hz
Power factor	>0.99	>0.99
Total Harmonic Distortion	<3%	<3%
Maximum units per branch	20	10
<b>Efficiency</b>		
Peak inverter efficiency	95.6%	95.8%
EURO weighted efficiency	95%(according to the EN50530)	95.1%(according to the EN50530)
Nighttime power consumption	100mW	120mW
<b>Mechanical Data</b>		
Enclosure environmental rating	IP65	IP65
Operating temperature range	-40°C~+65°C	-40°C~+65°C
Dimensions (WxHxD)	163mm*163mm*27mm(Without bracket) 163mm*216mm*27mm(With bracket)	248mm*172mm*27.5mm(Without bracket) 248mm*238mm*27.5mm(With bracket)
Weight	1.5Kg	2.4Kg
<b>Features</b>		
Communication	PLCC (Power Line Carrier Communication)	
Compliance	VDE-AR-N 4105, VDE 0126-1-1, G83/2, UTE C15-712-1, AS4777, EN50438, EN62109, EN61000	
Warranty	25 Years	

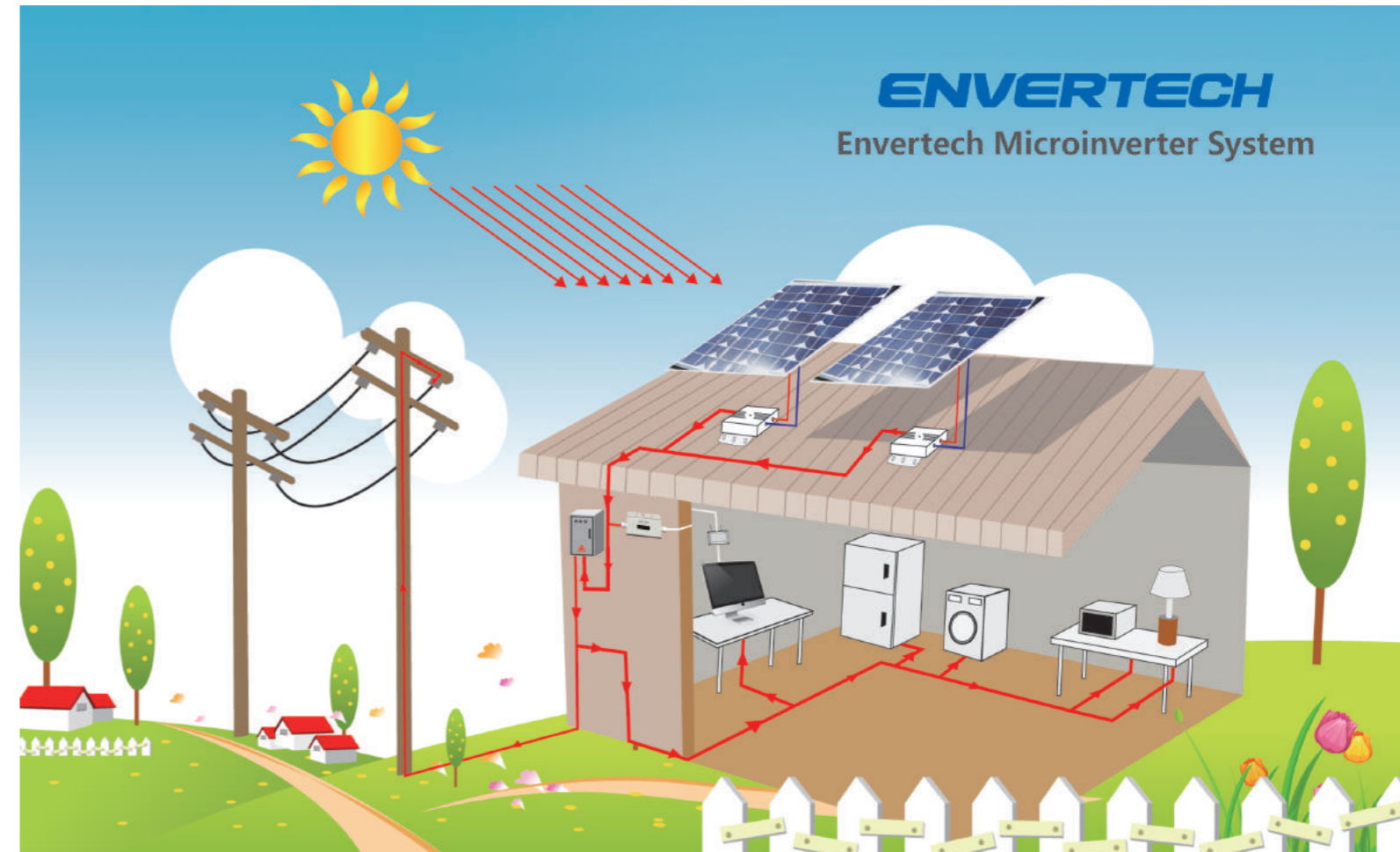


## Monitoring Device EnverBridge

EnverBridge acts as the communication interface which offers the network access to the solar arrays for monitoring an Envertech microinverter system. The real-time energy harvest for every Envertech microinverter can be collected by EnverBridge and transmitted to EnverPortal for the global real-time monitoring.

### EnverBridge Datasheet

Model	EnverBridge
<b>Interface</b>	
PLCC	Envertech Proprietary
LCD	LCD Screen
Ethernet	RJ45
<b>Capacity</b>	
Numbers of devices connected	Monitor up to 20 units of EVT248 (or 10 units of EVT500)
<b>Power Requirements</b>	
AC Supply	220V/230V/240V ; 50Hz/60Hz
Power Consumption	3W
<b>Mechanical Data</b>	
Dimensions	185mm*110mm*46mm
Weight	300g
Cooling	Natural convection- no fans
Ambient Temperature Range	-40°C~65°C
Enclosure Environment Rating	IP65
<b>Features</b>	
Compliance	CE
Warranty	5 Years



### Envertech Microinverter System

The microinverter is a revolutionary solar solution that significantly increases energy harvest, offers highest possible reliability and enormously simplifies your installation process.



A green future is in our hands!