

MICROINVERTER

# EVT300

Connected to one single panel.



MICROINVERTER

# EVT560

Connected to two panels.



MICROINVERTER

# EVT1200

Connected to FOUR panels.



## SAFE

Low DC voltage,  
and invisible.



## QUALITY

Components selected from  
world-class brands.



## OPTIMIZATION

Individual MPPT for each  
module.



## FLEXIBILITY

Adapts to any system size  
and optimizes space.



## PLUG & PLAY

Hand-in-hand design.  
Fewer add-ons.  
Faster installation.



## 25 YEARS

Long 25 years lifetime.  
Up to 15 years warranty.



## SMART

Module-level online  
smart monitoring.



## Monitoring Device EVB300

Communicates with Envertech microinverters through PLCC/WIFI and enables users to manage the systems in a smart digital way.

# DATASHEET

Model	EVT300	EVT560	EVT1200
<b>Input Data (DC)</b>			
Recommended Input Power Range(STC)	180W - 420W+	(180W - 400W+) *2	(180W-420W+) *4
Max. DC Input (V)	54V	54V	54V
Max. Input Short-circuit Current (A)	15A	15A	15A
Operating Range (V)	18V-54V	18V-54V	16V~60V
Max. Input Continuous Current (A)	12A	12A*2	12A*4
MPPT Voltage Range (V)	24V-45V	24V-45V	22V~48V
<b>Output Data (AC)</b>			
Normal Voltage (Vac)	230V	230V	220V/230V
Current (Max.continuous) (A)	1.36A	2.54A	5.90A
Frequency (Hz)	50Hz	50Hz	50Hz
Power (Max.continuous) (W)	300W	560W	1200 W
Peak Power (W)	330W	600W	1300W
Power Factor Range	+/-0.95	+/-0.95	+/-0.90
Total Harmonic Distortion	<3%	<3%	<3%
Maximum Units Per Branch (12AWG Cable)	20 Units	10 Units	5 Units
<b>Efficiency</b>			
Peak Inverter Efficiency	95.6%		
EURO Weighted Efficiency	95%		
MPPT Efficiency	99.9%		
Nighttime Power Consumption	<100mW		
<b>Features</b>			
Communication	PLCC (Power Line Carrier Communication)		
Compliance	VDE-AR-N 4105, IEC/EN61000, IEC/EN62109-1/2, EN50549-1/2019, TOR 2019, C10/11:2019, UTE C15-712-1:2013, VFR 2019		
Lifetime	25 Years		
<b>Others</b>			
Ingress Protection (IP)	IP 67		
Protective Class	Classe 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	2.8kg	5.4kg
Dimensions(W*H*D)	163mm*216mm*27mm	248mm*236mm*27.5mm	316.5mm*189mm*46mm

# MONITORING DEVICE

# EVB300

Communication gateway for Envertech microinverters.



## SMART

Online and local smart monitoring and management of Envertech PV system.



## Bi-DIRECTIONAL

MI output power control.  
Remotely setting or upgrading monitors and MIs.



## FLEXIBILITY

Connected by WIFI or RJ45 cable.  
Adapted to both single and 3-phase systems.

## Model

## EVB300

### Features

Communication Method	PLCC (Power Line Carrier Communication)
Monitor mode	Real-time data monitored and remote control on app
Ethernet Connection	TCP/IP
Wireless Communication	WIFI (802.11g/n)
Applicable Voltage	Single Phase / Three-Phase
Storage (Optional)	USB Local Storage
Power Control (Optional)	Automatic Control of Power Output
RS485 Port	Virtual communication port, used for communication and control between RS485 equipment and EVB300.

### Capacity

Number of Devices Connected	Up to 40 Units of PV Modules on Each Phase
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### AC Supply/Consumption

AC Supply	108~264VAC, 47.5~62.0Hz
Power Consumption	3W

### Mechanical Data

Dimensions (W*H*D)	172mm*100mm*45.5mm
Weight	750 g
Cooling	Natural Convection- No Fans
Ambient Temperature Range	-40 C ~+65 C
Ingress Protection (IP)	IP40

### Compliance & Warranty

Compliance	CE
Warranty	3 Years