

EVT400

Connected to one single panel.




-Type P



SAFE
Low DC voltage.




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, and fast installation.

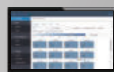


15 YEARS
Long 25 years lifetime; optional up to 20 years warranty.



SMART*
Module-level online smart monitoring.

Smart*: Smart monitoring devices are optional at additional cost.



Monitoring Device EVB300

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

DATASHEET

Model

EVT400

Input Data (DC)

Recommended Input Power Range(STC)	180W-550W+
Max. DC Input (V)	60V
Isc PV (Absolute Max.) (A)	25A
Operating Range (V)	16V-60V
Max. Input Current (A)	14A
MPPT Voltage Range (V)	22V-50V

Output Data (AC)

Normal Voltage (Vac)	220V/230V
Voltage Range (Vac)	189-260V
Current (Max.continuous) (A)	1.81A
Frequency (Hz)	50Hz/60Hz
Frequency Range (Hz)	47.5-52.5Hz / 57.5-62.5Hz
Power (Max.continuous) (W)	400W
Power Factor/Rated (default)	+/-0.90
Total Harmonic Distortion	<3%
Maximum Units Per Branch (12AWG Cable)	13 Units

Efficiency

Peak Efficiency	96.5%
MPPT Efficiency	99.9%
Nighttime Power Consumption	<100mW

Features

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, CEI 0-21 UTE C15-712-1:2013, VFR 2019
Warranty	15 years (20 years optional)

Others

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	☑ High Frequency Isolated
Weight	1.8kg
Dimensions (W*H*D)	163.3mm*163.7mm*27mm

EVT400

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-Type R



SAFE
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QUALITY
Components selected from world-class brands.



MONITORING
Built-in WiFi or additional monitoring device* available.




FLEXIBILITY
Adapts to any system size and optimizes space.



PLUG & PLAY
Hand-in-hand design, fewer add-ons, and fast installation.



15 YEARS
Long 25 years lifetime; optional up to 20 years warranty.



MODULE-LEVEL
Module-level optimization & monitoring.

Monitoring device*: Monitoring devices are optional at extra cost.



Monitoring

Enables users to manager the systems in a smart digital ways via PLCC or Built-in Wifi.

DATASHEET

Model

EVT400

Input Data (DC)

Recommended Input Power Range(STC)	180W-550W+
Max. DC Input (V)	60V
Isc PV (Absolute Max.) (A)	25A
Operating Range (V)	16V-60V
Max. Input Current (A)	14A
MPPT Voltage Range (V)	22V-50V

Output Data (AC)

Normal Voltage (Vac)	220V/230V
Voltage Range (Vac)	189-260V
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Frequency (Hz)	50Hz/60Hz
Frequency Range (Hz)	47.5-52.5Hz / 57.5-62.5Hz
Power (Max.continuous) (W)	400W
Power Factor/Rated (default)	+/-0.90
Total Harmonic Distortion	<3%
Maximum Units Per Branch (12AWG Cable)	13 Units

Efficiency

Peak Efficiency	96.5%
MPPT Efficiency	99.9%
Nighttime Power Consumption	<100mW

Features

Communication	PLCC (Power Line Carrier Communication) / WiFi
Compliance	VDE-AR-N 4105, IEC/EN61000, IEC/EN62109-1/2, EN50549-1/2019, TOR 2019, C10/11:2019, CEI 0-21 UTE C15-712-1:2013, VFR 2019
Warranty	15 years (20 years optional)

Others

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	☑ High Frequency Isolated
Weight	2.1kg
Dimensions (W*H*D)	163.3mm*163.7mm*35.5mm

EVT400

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-Type B



SAFE
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15 YEARS
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MODULE-LEVEL
Module-level optimization & monitoring.

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Monitoring

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DATASHEET

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Recommended Input Power Range(STC)	180W-550W+
Max. DC Input (V)	60V
Isc PV (Absolute Max.) (A)	25A
Operating Range (V)	16V-60V
Max. Input Current (A)	14A
MPPT Voltage Range (V)	22V-50V
Output Data (AC)	
Normal Voltage (Vac)	220V/230V
Voltage Range (Vac)	189-260V
Current (Max.continuous) (A)	1.81A
Frequency (Hz)	50Hz/60Hz
Frequency Range (Hz)	47.5-52.5Hz / 57.5-62.5Hz
Power (Max.continuous) (W)	400W
Power Factor/Rated (default)	+/-0.90
Total Harmonic Distortion	<3%
Maximum Units Per Branch (12AWG Cable)	N/A
Efficiency	
Peak Efficiency	96.5%
MPPT Efficiency	99.9%
Nighttime Power Consumption	<100mW
Features	
Communication	PLCC (Power Line Carrier Communication) / WiFi
Compliance	VDE-AR-N 4105, IEC/EN61000, IEC/EN62109-1/2, EN50549-1/2019, TOR 2019, C10/11:2019, CEI 0-21 UTE C15-712-1:2013, VFR 2019
Warranty	15 years (20 years optional)
Others	
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	☑ High Frequency Isolated
Weight	2.1kg
Dimensions (W*H*D)	163.3mm*163.7mm*35.5mm