



Fortress Power Envy 8kw & 10kw

Whole Home Solar Storage Inverter



The Fortress Power Envy 8kW and 10kW are a whole-home, all-in-one inverter solution. Paired with the Fortress Power [eFlex 5.4 kWh](#), the [eVault MAX 18.5 kWh](#) or [LFP-10 MAX](#) batteries, the Envy features a 90A AC passthrough providing up to 8kW (33.3@ 240V) or 10kw (41.6A @240V) of whole-home backup power. The Envy features a built-in generator input with AC/DC coupling, on- and off-grid capabilities, plus a 2 MPPT output allowing for a maximum of 13 kW PV array (Envy 8kW) or 15kW PV array (Envy 10kW). The Envy is equipped with a built-in APsmart Module Level Rapid Shutdown Transmitter and Button, along with integrated AC & DC breakers allowing for fast installation and commissioning. Use our online monitoring app to access your system from anywhere.

English

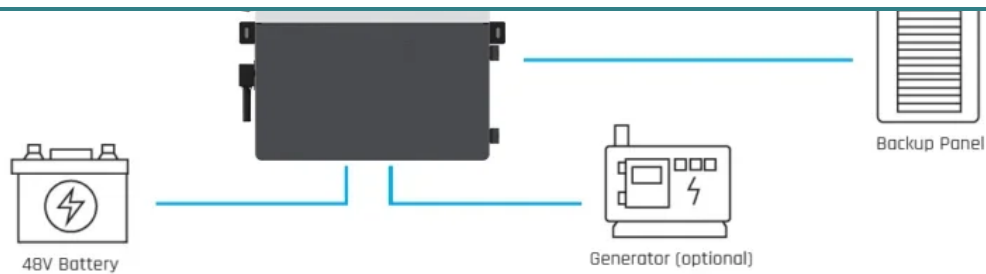


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- Max Input 15KW PV Array (Envy 10kW)
 - AC, DC And AC/DC Combined Coupling
 - Built-In Generator Input
 - 10 Units In Parallel
 - Local And Remote Monitoring/App
 - Color LCD Touch Screen.
 - Batch Settings

Supported Applications:

- Backup
- Off-Grid
- Zero Export
- Time-Of-Use
- Virtual Power Plant
- Peak Shaving
- Net Metering
- Smart Load
- Microgrid

Whole-Home Backup One-Line Diagram



Specifications

	Envoy 8kW	Envoy 10kW
Input DC (PV Side)		
Max. DC Input Power for Single MPPT	6000W / 6000 W	6000W / 6000 W
Max. PV Input Power	13000W	15000W
Max. PV Power Delivered to Battery & AC Outputs	12000W	12000W
DC Input Voltage Range	100V-600V	100V-600V
Nominal DC Input Voltage	360V	360V
Full Power MPPT Voltage Range	170V-500V	210V – 500V
Max. DC Input Current	25A / 25A	25A / 25A
MPPT Number/(Strings per MPPT)	2 / 2	2 / 2
Output/Input AC (Grid)		

English



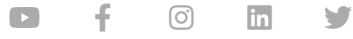
Generator	12000W (210) GEN	12000W GEN
Nominal Output Voltage	120V/240V	120V/240V
Max. Continuous AC Current	33.3A @ 240V	41.6A @ 240V
Nominal AC Frequency	50Hz/60Hz	50Hz/60Hz
Output AC (Off-Grid)		
Max. Output Power	8000W	10000W
Nominal Output Voltage	120V/240V	120V/240V
Nominal Output Frequency	50Hz/60Hz	50Hz/60Hz
Nominal Output Current	33.3A @ 240V	41.6A @ 240V
Peak Power	16kW / 500ms	20kW / 500ms
Switching Time	Seamless	Seamless
Dedicated Auto-start Generator Port	50A / 12kW	50A / 12kW
Battery Parameters		
Compatible Battery Type	eVault Max, eFlex, LFP-10 MAX	eVault Max, eFlex, LFP-10 MAX
Nominal Battery Voltage	48V	48V
Battery Voltage Range	48V-56V	48V-56V
Maximum Charging/Discharging Current	167A	210A

English



MPPT Efficiency	99.9%	99.9%
Max. Efficiency	97.5%	97.5%
CEC Efficiency	96.5%	96.5%
Protection		
Anti-islanding Protection	YES	YES
DC Switch	YES	YES
Ingress Protect Degree	NEMA 4X, IP65	NEMA 4X, IP65
SPD Protection	YES	YES
AFCI	YES	YES
RSD	Built-in APsmart Transmitter	Built-in APsmart Transmitter
General Data		
Dimensions	580 x 490 x 265mm (22.8 x 19.3 x 10.4 in)	580 x 490 x 265mm (22.8 x 19.3 x 10.4 in)
Weight	44kg (97lbs)	44kg (97lbs)
Display	Color LCD	Color LCD
Ambient Temperature Range	-25 to 60 °C (-13 to 140 °F)	-25 to 60 °C (-13 to 140 °F)
Cooling	FAN	FAN
Communication	RS485/Wi-Fi/CAN	RS485/Wi-Fi/CAN
Standard & Certification		

English



Warranty	5 Years (Optional 10 Years)	10 Years
Key Features		
Downloads		

English