



The SunWize Power Center Assembly combines the disconnects, overcurrent protection devices and controls into an easy-to-install and operate panel.

SunWize® Power Center Assembly with E-Panel and OutBack Inverters

SunWize Power Centers are designed for UPS or stand-alone applications and are ideal for medium-sized solar grid-tie systems with battery backup. SunWize Power Centers are assembled and tested in the ETL-508A listed SunWize factory and feature OutBack FX series inverter/chargers and the FM60 controller. The solar array, batteries and battery system connections are sold separately.

SunWize Power Centers offer sealed or vented FX series inverters with or without the FM60 charge controller assembled on a MidNite Solar E-Panel. The compact design of the E-Panel allows simple wall mounting of a single inverter/controller assembly for indoor installations.

All components are listed to UL specifications for USA and Canadian standards. For 120/240 Vac split-phase output, an additional 4kW PSX240 transformer can be added. Unit measures 26" x 18" x 18" and weighs 100 lbs.



Optional OutBack MATE system display and controller



E-Panel, FX Series inverter and charge controller



Optional OutBack PSX-240 auto transformer



Optional SunWize Digital kWh Meter

Benefits and Advantages:

- Rebates may be available if used with a solar system
- Pre-assembly saves time/money
- Hinged door for easy access to wiring
- E-Panel serves as AC sub panel for dedicated loads
- All AC/DC circuit breakers are pre-wired

SunWize Power Center Assembly Features:

- OutBack sealed or vented inverter with or without FM60 MPPT charge controller, battery temp. sensor & cable
 - Mounting brackets aid in 1-person installations
 - Gray powder-coated steel enclosure
 - AC distribution wiring terminal blocks
 - 50A Input/Output AC bypass breakers
 - 500A-50mV Negative DC current shunt
 - Heavy duty 175A or 250A main battery circuit breaker
 - 63A PV Ground fault breaker and dual GFCI outlets*
 - 63 Adc Solar/battery DIN rail-mounted breakers
- *included with FM60 models

Warranty Info:

- FX Series inverters – 5-year
- FM60 – 2-year
- SunWize system – 1-year

Available Options:

- 715134 - MATE_B universal display black square flush mount
- 715068 - Mate universal system display & monitor with 50 ft. RS232 cable
- 715157 - PSX-240 6kW transformer for 120/240 Vac 60 Hz split-phase output, includes auto-cooling fan, 25A dual breaker and indoor enclosure
- 716010 - Load circuit breaker-15A DIN120Vac single pole

FOR BATTERY BACKUP WITH GENERATOR OR GRID-TIED UPS

The single FX inverter/charger system enables the AC grid or a generator to charge a battery bank. When utility power is not available dedicated loads are powered directly by the battery, when utility is restored battery is recharged.

E-Panel with OutBack FX Series Inverter/Charger

Part #	E-Panel	Inverter model	Power (watts)	Input-Output	Main Breaker (A/c)
996716009	MNE125ST-R	FX3048T sealed turbo	3000	48 Vdc-120 Vac/60 Hz	125
996716010	MNE175ST-R	FX2524T sealed turbo	2500	24 Vdc-120 Vac/60 Hz	175
996716011	MNE175ST-R	VFX3648 vented	3600	48 Vdc-120 Vac/60 Hz	175
996716012	MNE250ST-R	FX2012T sealed turbo	2000	12 Vdc-120 Vac/60 Hz	250
996716013	MNE250ST-R	VFX2812 vented	2800	12 Vdc-120 Vac/60 Hz	250
996716014	MNE250ST-R	VFX3524 vented	3500	24 Vdc-120 Vac/60 Hz	250

Unit size/weight: 10"W x 26"H x 17"D/73 lbs.

FOR OFF-GRID SOLAR WITH BATTERY BACKUP

During the day, the single FX inverter/charger system enables solar energy to power dedicated loads directly and at night allows the battery bank to provide power for dedicated loads. A generator can be incorporated for battery charging and powering dedicated loads.

E-panel with OutBack FX Series Inverter/Charger and FM60 solar charge controller

Part #	E-Panel	Inverter model	Power (watts)	Input-Output	Main Breaker (A/c)	PV-GVP (Amps)
996716015	MNE125ST-R	FX3048T sealed turbo	3000	48 Vdc-120 Vac/60 Hz	125	63
996716016	MNE175ST-R	FX2524T sealed turbo	2500	24 Vdc-120 Vac/60 Hz	175	63
996716000	MNE175ST-R	VFX3648 vented	3600	48 Vdc-120 Vac/60 Hz	175	63
996716017	MNE250ST-R	FX2012T sealed turbo	2000	12 Vdc-120 Vac/60 Hz	250	63
996716018	MNE250ST-R	VFX2812 vented	2800	12 Vdc-120 Vac/60 Hz	250	63
996716001	MNE250ST-R	VFX3524 vented	3500	24 Vdc-120 Vac/60 Hz	250	63

All models listed above for FX series inverters are with gray powder-coated steel enclosures, right-hand door

Unit size/weight: 16"W x 26"H x 17"D/87 lbs.

For models with E-panel assemblies in white powder-coated aluminum enclosure, left-hand door – refer to price list

FOR GRID-TIE SOLAR WITH BATTERY BACKUP

During the day, the single GFX inverter/charger system enables solar energy to power dedicated loads directly or send excess electricity into the utility grid, lowering the electric bill. The Power Center also allows nighttime load operation. When utility power is not available, dedicated loads are directly powered by the solar array during the day and by a battery bank at night.

E-Panel with OutBack GFX Series Inverter/Charger with FM60 solar charge controller and FW-SP-ACA surge protector

Part #	E-Panel	Inverter model	Power (watts)	Input-Output	Main Breaker (A/c)	PV-GVP (Amps)
996716002	MNE125STS-R	GTFX3048 sealed turbo	3000	48 Vdc-120 Vac/60 Hz	125	63
996716019	MNE175STS-R	GTFX2524 sealed turbo	2500	24 Vdc-120 Vac/60 Hz	175	63
996716003	MNE175STS-R	GVFX3648 vented	3600	48 Vdc-120 Vac/60 Hz	175	63
996716020	MNE250STS-R	GVFX3524 vented	3500	24 Vdc-120 Vac/60 Hz	250	63

Above models in STS enclosure are standard in gray steel right-hand door; white aluminum not available.

Unit size/weight: 20.5"W x 26"H x 17"D/105 lbs.

FM60 solar charge controller maximum PV input

Battery Vdc	PV Voc	PV Watts Max
12	20-44	800
24	44-88	1600
48	80-125	3200

Note: PV input current not to exceed 40A short circuit (Isc) due to NEC over-current safety factor of 1.56. PV array not to exceed 150 Vdc open circuit (Voc) after temperature correction factor applied per NEC article 690.7.A