

# The FLEXware System

FLEXware is the latest example of OutBack's continuous efforts to bring you the most value packed and technologically advanced products available.

Our integrating partners, dealers, installers, and system owners spoke—and we listened. The resulting FLEXware is the most integrated, modular, and spacious installation system OutBack has ever designed. Its components are more versatile, the wiring space is larger, and the all-aluminum, powder-coated construction not only resists corrosion longer, but is lighter and easier to handle than our previous steel construction. OutBack's new FLEXware makes for a great looking installation that will continue to look great for years.

Designed to work as a modular "building block" architecture, FLEXware offers more versatility than ever before. From single inverter back-up systems to a multiple inverter village power system, FLEXware is the solution.

The FLEXware 250 offers the lowest cost solution for single inverter/charger installations when space and budget are primary concerns.

The FLEXware 500 supports up to two inverter/chargers and two charge controllers in an attractive, versatile and code-compliant package when more power is needed.

The FLEXware 1000 accommodates up to four inverter/chargers and four charge controllers. It can also be used for large systems with multiple power panels for systems up to 36 kW.

Both the FLEXware 500 and FLEXware 1000 systems provide ample locations for additional breakers, DC current shunts, an auto-transformer and other components required in higher kW systems.

The new FLEXware MP (mounting plate) shows the versatility of the FLEXware system with its compatibility with both the FLEXware 500 and FLEXware 1000 systems.

All of the FLEXware options have also been simplified, making the design, ordering and installation of power systems easier than ever.



 FLEXware™

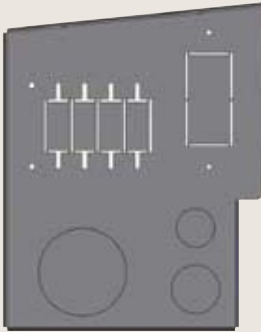
# FLEXware™ 250

For applications with modest power requirements such as cabins, chalets, homes, remote communication sites and back-up power systems. The FLEXware 250 accommodates all of the essential protective devices in the smallest possible space at the lowest installed cost. Utilizing an extremely compact design and unique mounting features, one **or two** FLEXware 250 enclosures can be mounted on each end of a single FX Series Inverter/Charger. The FLEXware 250 enclosure is constructed of powder-coated aluminum and has been ETL listed. It provides breaker spaces for battery, PV array or PV GFP breakers and mounting locations for AC GFCI outlet, AC breakers and an Input-Output-Bypass Assembly. In keeping with the philosophy of FLEXware, the FLEXware 250's flexibility is evident in the generous number of knock-outs allowing the installation of conduit, cable glands, and other installation accessories.



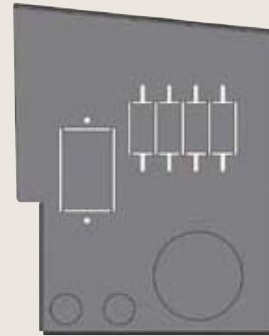
## Breaker Configuration Diagram

AC Side



Holds up to four 0.75" (19 mm) wide AC rated panel mount breakers (not included). They are rated for 1-60 Amps of AC current. Support for optional AC Input-Output-Bypass Assembly. Holds one ground fault duplex AC outlet receptacle.

DC Side



Holds up to four 0.75" (19 mm) wide DC rated panel mount breakers (not included). They are rated for 1-80 Amps of DC current. Holds one 1.5" (39 mm) wide 175 or 250 Amp breaker. Includes large DC breaker handle guard.

## Knockout Location Diagram

### AC Side

- (1) 2" knockout (2.468" diameter)
- (1) 1" knockout (1.359" diameter)
- (1) ¾" knockout (1.093" diameter)

### DC side

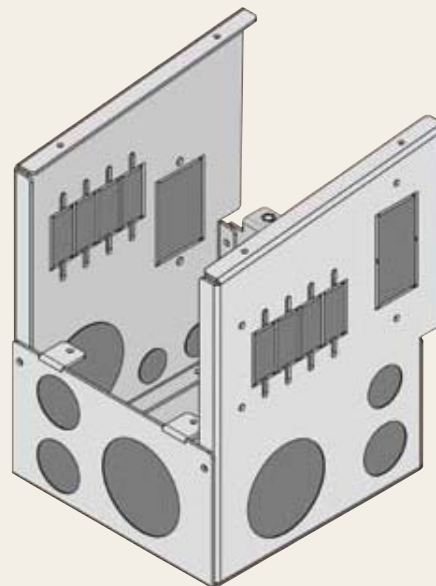
- (1) 2" knockout (2.468" diameter)
- (2) ½" knockout (0.875" diameter)

### Back

- (1) 2" knockout (2.468" diameter)
- (2) 1" knockout (1.359" diameter)

### Bottom

- (1) 2" knockout (2.468" diameter)



# FLEXware 250

**Model: FW250**

**Description:** DC and/or AC breaker enclosure for one FX Series Inverter/Charger

**Includes:** Ground bus bar, DC breaker handle guard, breaker mounting hardware and enclosure mounting hardware

Unit Dimensions (H x W x D)	Shipping Dimensions (H x W x L)	Shipping Weight	Enclosure Type
7.5 x 6.5 x 8.6" (19.1 x 16.5 x 21.8 cm)	9.75 x 8.4 x 11.6" (24.8 x 21.3 x 29.5 cm)	5 lbs. (2.3 kg)	Type-1 indoor (IP30)

Holds up to eight 1 to 80 Amp, one 175 or 250 Amp panel mount breaker and a GFCI AC outlet (not included).

- Does not use the DCA or ACA for connection to an FX Series Inverter/Charger.
- DC current shunt not included

## FLEXware 250 AC Input-Output-Bypass Assemblies

Field-installable kit for by-passing the AC input to the AC output for inverter maintenance, testing or installation. Also provides over-current protection for AC input and output.

**Model: FW-IOB-S-120VAC**

**Includes:** Three 60A 120VAC single pole PANEL mount breakers, sliding bypass interlock plate, wire and hardware kit

System Rating	Bypass Breaker	Input Breaker	Output Breaker
Single-Phase 120VAC 60 Amp 7.2 kW	One Pole @ 60 Amps 7.2 kW	One Pole @ 60 Amps 7.2 kW	One Pole @ 60 Amps 7.2 kW

**Model: FW-IOB-S-230VAC**

**Includes:** Three 30A 230VAC single pole PANEL mount breakers, sliding bypass interlock plate, wire and hardware kit

System Rating	Bypass Breaker	Input Breaker	Output Breaker
Single-Phase 230VAC 30 Amp 6.9 kW	One Pole @ 30 Amps 6.9 kW	One Pole @ 30 Amps 6.9 kW	One Pole @ 30 Amps 6.9 kW

## Sample Bill of Materials

FW250 With FW-IOB-S-120VAC - Example of system with one VFX3524 OutBack Power Inverter/Charger			
Part #	Description		Qty
VFX3524 Inverter/Charger	3500 W, 24 VDC, 85 Amp charger, 60 Amp AC input		1
FW250	DC and/or AC breaker enclosure – secures directly to either end of an FX Series Inverter/Charger.		2
OBB-175-125VDC-PNL	175 Amp, 125VDC, 3/8" stud terminals		1
FW-IOB-S-120VAC	Single inverter Input-Output-Bypass for FW250 only		1
MATE	System Display and Controller		1
HUB-4	Four Port, Up to 4 devices and one MATE		1
RTS	For use with FX, VFX or MX60 (Includes 15' (5 m) cable)		1
FW-SHUNT250	500 Amp 50mV DC current shunt with attached terminal bus bar for mounting on top of a FX Series Inverter/Charger		1
FW-Cable175-15R	175 Amp 2/0 AWG DC cable 15 inches (380 mm) long with ring terminals on both ends with red heat shrink		1