

# FLEXware™ Surge Protector

Transient Overvoltage Suppression

**OutBack**  
Power Systems™



Affordable, "All-In-One", AC Input, AC Output and DC Surge Protection

Easy to Install/Seamless Integration with FLEXware

At-A-Glance Visual Verification of Protection Level

Engineered and Manufactured by OutBack Power Systems

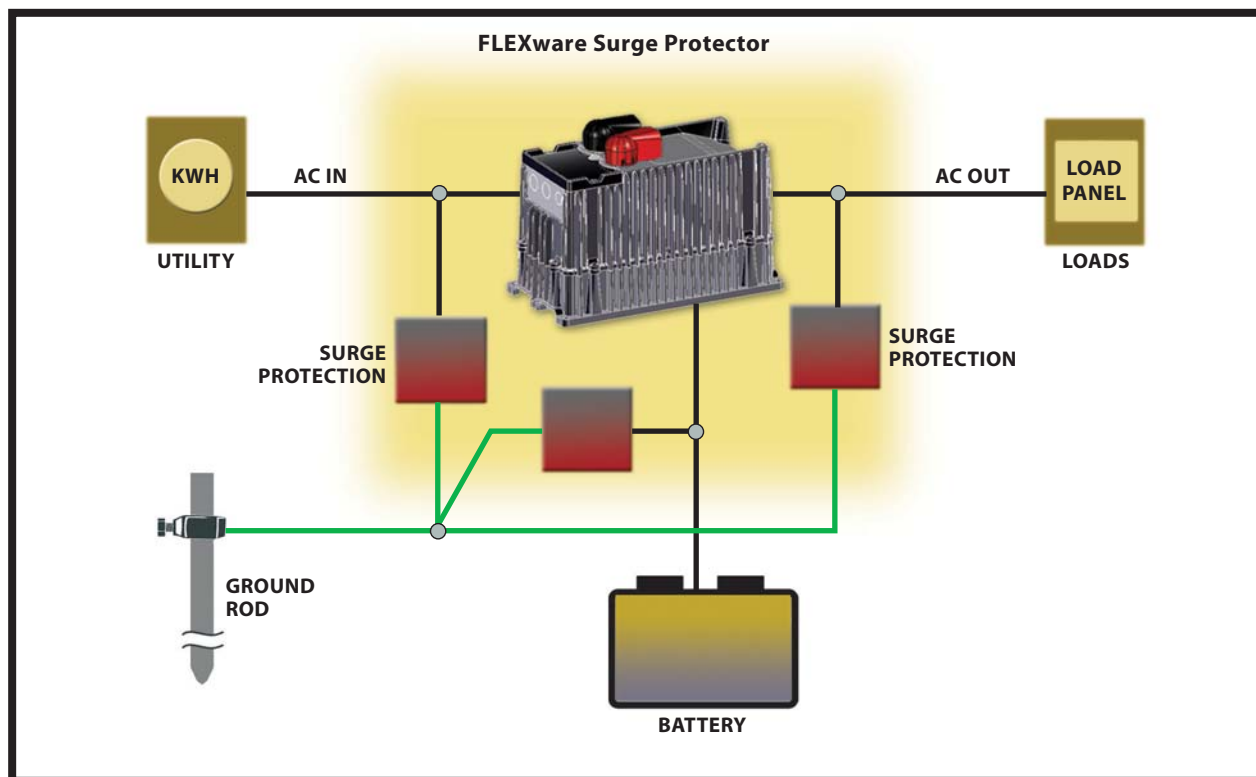
Designed Specifically for FX Series Inverter/Chargers

The OutBack Power Systems FLEXware Surge Protector is the newest seamlessly integrated balance-of-system component for the FX Series Inverter/Charger. The FLEXware Surge Protector was designed by OutBack engineers specifically for OutBack FX Series Inverter/Chargers, and provides multiple levels of protection for the vital electrical components of the Inverter/Charger in the event of an electrical surge or nearby lightning strike. The sophisticated design allows for both AC and DC protection on multiple circuits (two AC and one DC) via thermally fused Metal Oxide Varistors (MOVs). LED visual indicators provide at-a-glance status monitoring allowing system users to determine FLEXware Surge Protector operational status in real-time. The FLEXware Surge Protector is designed to operate between 120-240 VAC at 50/60 Hz and 12-48 VDC. Its multiple mounting configurations allow it to be incorporated into any OutBack system. The FW-SP-ACA mounts inside the FW-ACA (AC Conduit Adapter) for FLEXware 500 and 1000 systems, while the FW-SP-250 is designed to mount inside the FLEXware 250 AC Side Breaker Enclosure allowing for quick installations that keep your system protected and looking great.

The OutBack Power Systems FLEXware Surge Protector is the only choice when you want to protect your FX Series Inverter/Charger from the harmful effects of transient power surges. Ease of installation and seamless integration make it the obvious addition to your OutBack system.

## FLEXware™ Surge Protector Specifications

	FW-SP-ACA	FW-SP-250	FW-SP-R
Nominal Voltage	120-240VAC/12-48VDC	120-240VAC/12-48VDC	120-240VAC/12-48VDC
Voltage Protection Level	390VAC/150VDC	390VAC/150VDC	390VAC/150VDC
AC or DC	AC/DC	AC/DC	AC/DC
Maximum Surge Current (8/20 μs)	30kA per circuit	30kA per circuit	30kA per circuit
Energy Rating	2500 joules	2500 joules	2500 joules
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Protection Type	Thermally Fused MOV	Thermally Fused MOV	Thermally Fused MOV
Number of Protected Circuits	2 AC/1 DC	2 AC/1 DC	2 AC/1 DC
Mounting	FW-ACA	FW-250	Replacement Board (FW-SP-ACA, FW-SP-250)
Weight	Unit 1 lbs 4 oz (.57 kg)	1 lbs 2.5 oz (.52 kg)	7.5 oz (.21 kg)
	Shipping 2 lbs 2 oz (.96 kg)	2 lbs (.91 kg)	1 lb 2.2 oz (.516 kg)
Dimensions (H x W x L)	Unit 8.5 x 6.75 x 2.5" (21.59 x 17.15 x 6.35 cm)	5.5 x 6.5 x 7.5" (13.97 x 16.51 x 19.05 cm)	7.75 x 5.5 x 1.5" (19.69 x 13.97 x 3.81 cm)
	Shipping 10.13 x 9.13 x 5.75" (25.72 x 23.2 x 14.6 cm)	10 x 7.25 x 6" (25.4 x 18.42 x 15.24 cm)	9.38 x 7.25 x 2.5" (23.81 x 18.42 x 6.35 cm)



**OutBack**  
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