LifeSafety Power®

FLEXPOWER GLOBAL™

GLOBAL VAC | LOCKSAFE™ | OUTSMART™ | SURECHARGE™

FPG50 | 50W | 2A @ 12V, 2A @ 24VDC

- **Universal Input** global operation
- **Locksafe™** tight regulation provides longterm lock protection
- **OutSmart™** Bi-color output LED verifies voltage setting
- **SureCharge™** Micro processor controlled battery charger

Ordering	
FPG100-Boxed	Power supply/charger board

AGENCY APPROVALS

- CE (Europe)
- UL/ULC (Americas)
- BIS (India)
- PSE (Japan)
- RCM (Australia/NZ)
- IEC 62368-1:2014, EN55032:2015, EN61000-3-2:2014
- EN61000-3-3:2013, EN55024:2010 +A1:2015
- ROHS 3 Leadfree

OVERVIEW

The FPG50 is a universal input offline switchmode power supply-battery charger rated for 2A/12V or 2A/24V DC.

Complete fault detection and reporting is via independent AC Fault and System Fault form C relay contacts.

Features:

- **Universal input** global operation
- **Low battery cutoff** protects batteries from deep discharge
- **Dedicated fast charger** prolongs battery life
- **Enhanced surge immunity** for input/output protection
- **Locksafe™** tight regulation provides longterm device protection
- **Lifetime Warranty** LifeSafety Power's quality commitment

SYSTEM SPECIFICATIONS

Input:
100 - 240 Vac +/- 10%, 50/60Hz | 76 Watts maximum

Output:
2A @ 12V or 2A @ 24VDC user selectable
– Overload & short circuit protection with auto-restart
– Bi-color LED: Blue (24VDC) | Green (12VDC)

Battery Backup:
Autoswitch to battery with zero voltage drop
– Built in fast charger at 0.50A charge current
– Low power cutoff to prevent battery deep discharge
– Reverse battery protection

Supervision:
AC fail, Battery fail, System fault (form "C")
– Low power shutdown when battery voltage too low

Visual Indicators:
– AC On, DC output (Bi-Color), System Fault

Mechanical specifications:
– Board: 150L x 70W x 60H mm | 6L x 3.75W x 2.4H"
– E5 Enclosure: 216H x 280W x 76D mm | 8.5H x 11W x 3D"
– E1 Enclosure: 355H x 305W x 120D mm | 14H x 12W x 4.5D"

ELECTRICAL RATINGS

Parameter	Rating
Input Voltage	100 - 240 Vac +/- 10%, 50/60Hz
Input Power (max)	76W	150 VA
Main Output	2Amps @ 12V or 24V
Maximum Charge Current	0.5 Amps
Low Power Disconnect	at 70% of battery voltage
System BTU/Hr	34
Operating Temperature	-4 to +122F (-20 to +50C)
Efficiency	84% 120VAC 60Hz In, Full Load

FPG50-boxed

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 Specifications subject to change without notice.

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