

# Power Supplies

## **PSB/PSU Series**

### **Linear Power Supplies with High Performance Toroidal Transformer**



PSB3A Series



PSU310 Series



The GEM family of PSB/PSU series linear power supplies is specifically designed to support electrified locks and access control systems. The PSB series is equipped with a toroidal transformer that features low operating temperature and high electrical efficiency. The PSU200 is recommended for use with a wide range of access control devices. The PSU310/320/510 series is a multi-functional controller ideal for use where an interface with a fire alarm system is needed. The PSU510 series complies with EN60950-1 and is certified with CE, EMC, LVD, and FCC standards.

#### **Standard Features**

- Filtered & regulated DC output
- Sealed lead acid-gel battery charging capability (Battery is not included)
- LED indicators (For AC/DC/Power/Battery status)
- Built-in tamper switch (For PSB series)
- Toroidal transformer (For PSU-2A12V-230, PSB Series)
- Red flashing light & buzzer alarm (For PSU310/320 series)
- Field selectable 12 or 24 VDC (For PSU510 series)
- Adjustable timer (For PSU200/510 series)
- Emergency override input (For PSU310/320/510 series)

#### **Protection**

- Low battery voltage protection (For PSB series, PSU320, PSU2A-12V-230)
- DC short circuit protection
- Reverse battery protection
- AC & DC overcurrent protection
- DC thermal overload protection

#### **Patents, Approvals, and Listings**


- UL listed: E229191 (For PSU100-UL)
- CE-LVD: L3D1420L636 (For PSU510)
- CE-EMC/FCC: EC3D1420 (For PSU510)

## PSB Series Power Supplies

Models	Input Voltage (VAC)	Output Voltage (VDC)	Contact Ports	Optional Distribution Board	Battery Charger	Tamper Switch	Toroidal Transformer	Dimensions
PSB3A-230-12N PSB3A-230-24N	220-240	3A/13.8 3A/27.6	3	—	●	●	●	12 5/8" x 12 13/16" x 3 1/2" (320 x 325 x 89.5mm)
PSB5A-230-12N PSB5A-230-24N	220-240	5A/13.8 5A/27.6	5	●	●	●	●	12 5/8" x 12 13/16" x 3 1/2" (320 x 325 x 89.5mm)

\*All models are available on special order on 110-120VAC operation and with LED indicators for AC/DC voltage and battery status.




## PSU Series Power Supplies

Models	Input Voltage (VAC)	Output Voltage (VDC)	LEDs	Distribution Board	Emergency Override Input	Dimensions	Special Features
PSU-2A12V-230	230	2A/13.8 (24W)	●	—	—	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Toroidal Transformer
PSU100-UL 	110	2A/13.4 (24W)	—	—	—	8 1/4" x 8 11/16" x 3 1/8" (210 x 220 x 80mm)	—
PSU200	120 230	2A/13.8 (24W)	—	—	—	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Adjustable timer
PSU310	110 230	2A/13.8 (24W)	●	—	●	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Built-in Red flashing light and alarm
PSU320	100-240V 50/60 Hz	3A/13.8 (36W)	●	●	●	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Red flashing light and alarm
PSU510	110 230	3A/13.8 (36W) 2A/27.6 (48W)	●	●	●	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Field selectable 12 or 24VDC


Note: 1. The PSU310/510 series is available with LED indicators for AC/DC voltage and battery status. The PSU-2A12V-230 has only a power LED indicator. The PSU320 series includes AC, DC, and Battery LED indicators.

2. The PSU320 series is a switching power supply.

## Optional Boards for PSU320 or PSU510 Series

PSU510-02 Power Supply Module	PSU510-03 Power Supply Module	PSU510-04 Power Supply Module
		
<ul style="list-style-type: none"> <li>Green status LED on board</li> <li>12 VDC from 0~65 seconds timer adjustable</li> </ul>	<ul style="list-style-type: none"> <li>Red status LED on board</li> <li>24 VDC from 0~65 seconds timer adjustable</li> </ul>	<ul style="list-style-type: none"> <li>Board stacker for PSU510-01, 02, 03 modules</li> </ul>

## Optional Board for PSB5A-230 Series

GPD-3015-PLUS Power Distribution Board

<ul style="list-style-type: none"> <li>PPTC resettable fuse protection for each contact</li> <li>Maximum output rating 1 Amp</li> <li>Recommended for PSB5A-230-12N &amp; PSB5A-230-24N</li> </ul>

## Optional Toggle Switch S-SI-PSU-510 for PSU 510 Series

Built-in toggle switch to cut off main power

