

Power Supplies

PSU Series

Safe, Secure, and Reliable



PSU320



The GEM family of PSU series power supplies is specifically designed to support electrified locks and access control systems. It can serve as an uninterruptible power source that provides emergency power when the input power fails. The PSU series is available with various functions for different applications.

- The PSU200N 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 PSU320 also includes a built-in alarm and red flashing light on the enclosure cover for emergency alert.
- The PSU510 has been tested to EN60950-1, EMC, LVD and received FCC verification.
- The PSU18 is a mini switching power supply with universal AC input for a variety of applications.

Protection

The PSU series power supplies (except PSU18) are equipped with a variety of protection functions:

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

Standard Features

- Filtered & regulated DC output
- Sealed lead acid battery charging capability (Battery not included, Maximum battery size 12VDC/7AH)
- LED indicators (For AC/DC/Power/Battery status)

Patents, Approvals, and Listings

- CE-LVD: L3D1420L636 (For PSU510)
- CE-EMC: EC3D1420 (For PSU510)
- FCC: FV3D1420 (For PSU510)

PSU Series Power Supplies



PSU-2A12V-230

Toroidal transformer for transport damage reduction and at least 80% efficiency increase
Built-in tamper switch



PSU100

Simple linear power supply



PSU200N

Time delay from 1 to 30 seconds



PSU310

Ideal for use with fire control system
Built-in red flashing alarm for emergency alert



PSU510

Field selectable switch for 12 or 24 VDC output
Optional power supply control/timer modules available



PSU18

Compact size for convenience use and easy installation

PSU Series Power Supplies

Models	Input Voltage (VAC)	Output Voltage (VDC)	Status LED	Emergency Override Input	Dimensions	Special Feature
Linear Power Supplies						
PSU-2A12V-230	230	2A/13.8 (24W)	Power	—	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Toroidal transformer
PSU100	120 230	2A/13.4 (24W) 2A/27.6 (48W)	—	—	8 1/4 " x 8 11/16" x 3 1/8" (210 x 220 x 80mm)	Simple version
PSU200N	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)	DC, Battery	●	12 3/16" x 8 15/16" x 3 3/8" (310 x 227 x 86mm)	Built-in red flashing light and alarm
PSU510	110 230	3A/13.8 (36W) 2A/27.6 (48W)	DC, Battery	●	13" x 13" x 3 3/8" (330 x 330 x 86mm)	Field selectable 12 or 24VDC output
Switching Power Supplies						
PSU18-12TB PSU18-24TB	100~240V 50/60Hz	1A/12VDC 0.5A/24VDC	Power	—	2 3/16" x 1 7/8" x 1 9/16" (55 x 48 x 40mm)	Mini power supply
PSU320-12 PSU320-24	100-240V 50/60 Hz	3A/13.8 (36W) 2A/27.6 (48W)	AC, DC, Battery	●	12 5/8" x 10 5/16" x 3 9/16" (321 x 277 x 90mm)	Red flashing light and alarm

*PSU310 includes internal status LEDs on board.

Optional PSU Series Accessories

PSU320/510 Series			PSU510 Series
			
PSU 510-02 Power Supply Module	PSU510-03 Power Supply Module	PSU510-04 Board Stacker for Power Supply Modules	S-SI-PSU-510 Toggle Switch
• Green status LED on board • For 12 VDC output • Adjustable timer from 0 to 65 seconds	• Red status LED on board • For 24 VDC output • Adjustable timer from 0 to 65 seconds	Board stacker for PSU510 -01, 02, 03 modules	Main power switch

Warranty

The product is warranted against defects in material and workmanship while used in normal service for a period of 1 year from the date of sale to the original customer. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

Power Supplies PSB Series

Linear Power Supplies with High Performance Torodial Transformer



GPD-3015-PLUS

Optional Power Distribution Board

PPTC resettable fuse protection
Maximum output rating 1 amp

The GEM family of PSB series linear power supplies is specifically designed to support electrified locks and access control systems. It can serve as an uninterruptible power source that provides emergency power when the input power fails. The PSB series is equipped with a toroidal transformer that features low operating temperature and high electrical efficiency.

Standard Features

- Filtered & regulated DC output
- Sealed lead acid battery charging capability
(Battery not included, Maximum battery size 12VDC/7AH)
- Battery power disconnects when battery is fully charged
- LED indicators (For AC/DC/Battery status)

Protection

- Low battery voltage
- DC short circuit
- Reverse battery polarity
- AC & DC overcurrent
- DC thermal overload

PSB Series Power Supplies

Models	Input Voltage (VAC)	Output Voltage (VDC)	Contact Ports	Status LED	Battery Charging Protection (VDC)	Tamper Switch	Toroidal Transformer	Dimensions
PSB3A-230-12N PSB3A-230-24N	220-240	3A/13.8 3A/27.6	3	AC,DC,Battery	9-10.5 19-21.5	●	●	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	AC,DC,Battery	9-10.5 19-21.5	●	●	12 5/8" x 12 13/16" x 3 1/2" (320 x 325 x 89.5mm)

Note: All above models are available by special order on 110-120VAC operation.

Warranty

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