

# Power Supplies

## PSVM Series



**PSM-29TVM**



**PSB3A-230-12NVM / PSB3A-230-24NVM  
PSB5A-230-12NVM / PSB5A-230-24NVM**

PSB series linear power supplies is specifically designed to support electric locks and access control power system. PSB series have a toroidal transformer that reduces power loss, with 80% power conversion rate.

PSM-29TVM is ideal for use with a wide range of access control devices, such as electric locks, door operators, electric strikes, electromagnetic locks or keypad readers.

PSM-29TVM metal enclosure provides protection, capable to hold backup rechargeable battery from power failure. There are external 3 LED indicators to show I/O power and battery status.

### PSB Series Main Features

- Filtered & regulated DC output
- Sealed lead acid battery charging capability to achieve uninterrupted power supply (battery excluded, maximum battery size : 12 VDC / 7AH)
- Battery stop charging when fully charged
- LED indicators (For AC/DC/Battery status)
- 3 contact ports (two for locks, one for backup battery)

### PSB Series Protections

- Low battery threshold
- DC short circuit
- Battery anti-reverse polarity
- AC & DC overcurrent
- DC thermal overload

### PSM-29TVM Main Features

- 2 independent outputs for electric lock and Keypad controller
- Request to Exit (REX) input for a quick egress
- A switch to control fail-safe / fail-secure lock
- Battery protection: over-discharge, short-circuit, anti-reverse polarity



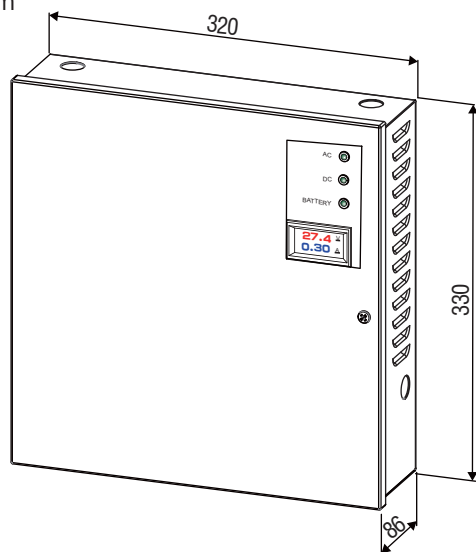
## PSB Series Power Supplies

Models	Input Voltage (VAC)	Output Voltage (VDC)	Contact Ports	Low Battery Threshold (VDC)	Voltmeter	Tamper Switch	Toroidal Transformer	Battery Type	Dimensions
PSB3A-230-12NVM	220-240	3A/13.8	3	9-10.5	●	●	●	12V/7Ah lead acid battery x 1	320 x 330 x 86mm
PSB3A-230-24NVM	220-240	3A/27.6	3	19-21.5	●	●	●	12V/5Ah lead acid battery x 2	320 x 330 x 86mm
PSB5A-230-12NVM	220-240	5A/13.8	3	9-10.5	●	●	●	12V/7Ah lead acid battery x 1	320 x 330 x 86mm
PSB5A-230-24NVM	220-240	5A/27.6	3	19-21.5	●	●	●	12V/5Ah lead acid battery x 2	320 x 330 x 86mm



PSB3A-230-12NVM / PSB5A-230-12NVM

Unit : mm



Voltmeter



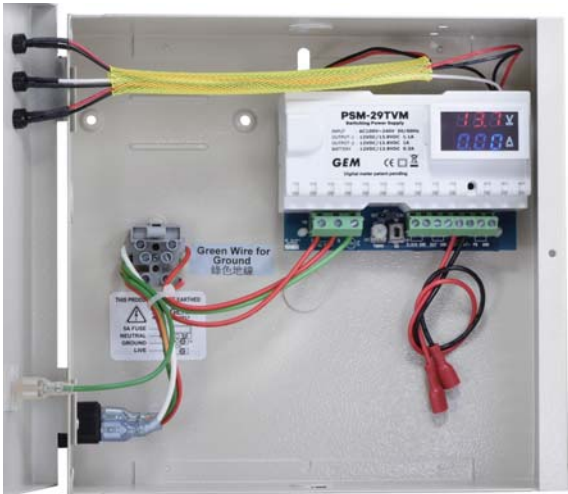
PSB3A-230-24NVM / PSB5A-230-24NVM

### 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.

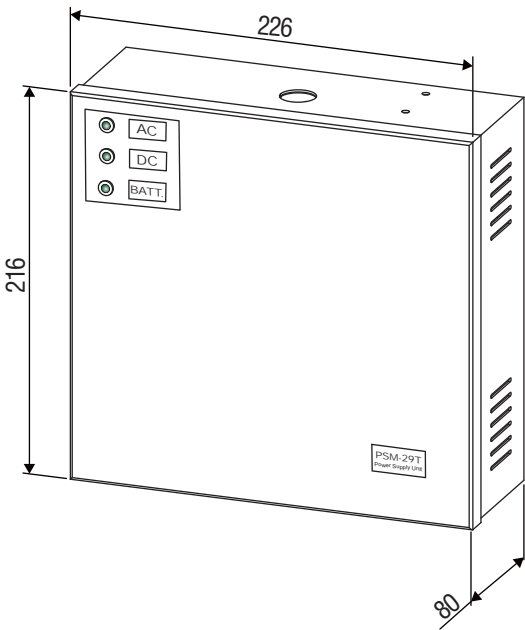
# PSM Series Power Supplies

Models	Input Voltage (VAC)	Output 1	Output 2	Battery Charger	Timer (Sec)	Voltmeter	Battery Type	Dimensions
PSM-29TVM	100-240V 50/60Hz	12V/13.8V 1.1A Max.	12V/13.8V 1A Max.	12V/13.8V 0.3A Max.	0~45	●	12V/7Ah lead acid battery x 1	216 x 226 x 80mm



PSM-29TVM

Unit : mm



Customizable US/EU plug

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# Digital Display Switching Adapter



Switching adaptor and battery connection example

New Design Switching Adapter is ideal for use with access control devices, electric locks and power backup solutions. Integrated with battery enclosure, smartly adjust dual outputs externally. Provide a stable, safe, convenient all-in-one power solution.

## Main Features

- **Auto Power Switching**  
Power supply switches to battery power in case of municipal power failures
- **Real-time Digital Display**  
Displays output voltage, current loading, makes easy maintenance and monitoring
- **Built-in Protection Mechanism**  
OVP (Over-Voltage Protection)  
OCP (Over-Current Protection)  
OLP (Over-Load Protection)  
ODP (Over-Discharge Protection)  
SCP (Short-Circuit Protection)  
Battery anti-reverse polarity
- **Dual Terminal Outputs**  
For electric lock, controller, alarm connections

## Applications

- Access control system
- Electric locks / Maglocks
- UPS / Security / Alarm  
Surveillance / Communications
- Low-voltage systems

**Customizable US/EU/UK/AU plug**  
+ battery enclosure: TBD-100 (optional)



Models	Input Voltage (VAC)	Output 1	Output 2	Battery Type	Dimensions
PSM3A-13.8-VM	AC100-240 V 50-60Hz, 1.5A	DC13.8V / 3A, 41.4W Max. (35°C) DC13.8V / 1.5A (55°C) *both terminal outputs	Charger: DC13.8V / 0.3A Max.	12V/7Ah lead acid battery x 1	190 x 60 x 43mm
PSM1.5A-27.6-VM	AC100-240 V 50-60Hz, 1.5A	DC27.6V / 1.5A, 41.4W Max. (35°C) DC27.6V / 0.75A (55°C) *both terminal outputs	Charger: DC27.6V / 0.3A Max	12V/5Ah lead acid battery x 2	190 x 60 x 43mm

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