



# PUBLIC SAFETY SYSTEMS



## DAL SERIES

NFPA® ALARM RELAY

## PS SERIES

WALL MOUNT POWER SUPPLY

## PS-MU SERIES

WALL MOUNT POWER SUPPLY w/ RMCU

## PSRM SERIES

RACK MOUNT POWER SUPPLY w/ BMS  
& NFPA® ALARMS

## PSBC-1600NFP SERIES

BATTERY CHARGER w/ NFPA® ALARMS

American Communication Systems

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<http://www.ameradio.com>



# PUBLIC SAFETY

## PS Series

### DC and AC Uninterruptible Power Supplies

The PS-Series DC and AC UPS Systems are specifically designed to meet the requirements of the NFPA® for mission critical and public safety DAS/BDA, and Small Cell. The units include an internal power supply, a separate 3-stage smart charger, and battery management system for a bank of sealed AGM batteries. Our modular DAL alarm unit provides the NFPA® compliant form C dry contact alarm closures and allows for easy replacement or substitution of components. Housed in a NEMA 4x enclosure with a durable red powder coated finish for public safety. Prewired and preconfigured for ease of installation.

#### Features

- Lockable NEMA 4x enclosure
- UL 50 & 50e certified enclosure
- Durable Red Powder Coat Finish
- UL 2524 Certified (All DC Output Models Only)
- NFPA® 1221 compliant Form C Dry Contact
  - AC Fail
  - 70% Battery Discharge, 30% Remaining Capacity
  - Charger Fail
- Output power: 300 watt or 600 watt power supply
- Output voltage: 12, 24, or 48 VDC and 120 VAC systems available
- Input: 90-264 VAC auto range
- Power supply, battery charger, and backup batteries included. Configurations available by special order. Contact us for a quote.
- Independent battery charger
  - 230 watt, 3 stage smart charger
  - Extends battery life over trickle charger
  - Faster recharge time over trickle charger
- 35Ah, 50Ah, or 100Ah standard battery configurations
- 24 hour battery backup continuous average load ratings and recharge times, refer to the chart below to see which unit is best for your system.
- Sealed AGM Batteries
  - Extended life over flooded lead acid
  - Faster charging over flooded lead acid
  - No off-gassing
- Low Voltage Disconnect
  - Protects delicate electronics from under voltage damage
  - Prevents batteries from over discharging, extending battery life



\* PS-548-50 pictured

\*\*NFPA® Certified consultant on staff



**LISTED**  
S36153  
UL 2524  
CERTIFIED  
SAFETY SIGNALLING  
DC Output Models Only

DC UPS Sizing Chart	Battery Capacity				
Average Constant Current Draw	7Ah	14Ah	35Ah	50Ah	100Ah
<1 Amps	~6 hours	~12 hours	~24 hours*	~48 hours*	~96 hours*
1 to 2.5 Amps	~3 hours	~6 hours	~12 hours	~24 hours*	~48 hours*
2.5 to 5 Amps	~1 hour	~3 hours	~6 hours	~12 hours	~24 hours*
*4 hours w/ generator *12 hours complies with NFPA *24 hours complies with IFC **Actual battery backup times may vary depending on the load, operating temperature, and the age of the batteries					

AC UPS Sizing Chart	Battery Capacity				
Average Power Draw	7Ah	14Ah	35Ah	50Ah	100Ah
<30 Watts	~6 hours	~12 hours	~24 hours*	~48 hours*	~96 hours*
30 to 70 Watts	~3 hours	~6 hours	~12 hours	~24 hours*	~48 hours*
70 to 100 Watts	~1 hour	~3 hours	~6 hours	~12 hours	~24 hours*
*4 hours w/ generator *12 hours complies with NFPA *24 hours complies with IFC **Actual battery backup times may vary depending on the load, operating temperature, and the age of the batteries					

# PUBLIC SAFETY

## PS Series

DC and AC Uninterruptible Power Supplies

### Models, Specifications

	Model Number	Power Supply Amps	Output Voltage VAC	Output Voltage VDC	Battery Amp Hours
AC Output Models	PS-4110-35	4	110		35
	PS-4110-50	4	110		50
	PS-4110-100	4	110		100

UL 2524 Certified for DC Output Models Only

DC Output Models	PS-2012-35	20		14.4	35
	PS-1024-35	10		28.8	35
	PS-548-35	5		57.6	35
	PS-4012-35	40		14.4	35
	PS-2024-35	20		28.8	35
	PS-1048-35	10		57.6	35
	PS-2012-50	20		14.4	50
	PS-1024-50	10		28.8	50
	PS-548-50	5		57.6	50
	PS-4012-50	40		14.4	50
	PS-2024-50	20		28.8	50
	PS-1048-50	10		57.6	50
	PS-2012-100	20		14.4	100
	PS-1024-100	10		28.8	100
	PS-4012-100	40		14.4	100
	PS-2024-100	20		28.8	100

Larger Sizes Available. Contact us for a Quote

# PUBLIC SAFETY

## PS-MU Series

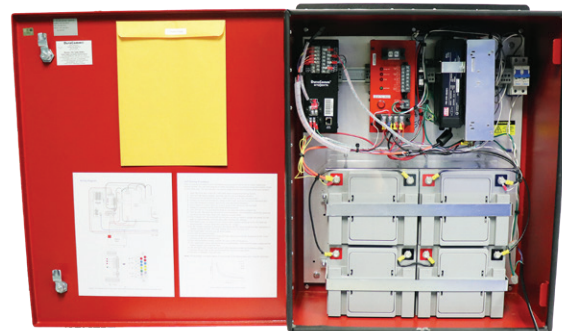
### ©ENTRI SERIES

With remote monitoring and control. The Centri Series PS-MU integrates our SiteCentri unit into the PS UPS system to provide real time remote monitoring and control of your system. In addition to the standard features of our PS-Series the MU adds the following features.

Given the critical nature of these systems we highly recommend this addition.

#### Features

- Alarm notifications by SNMP and email through Ethernet
  - Power supply fail alarm
  - AC fail alarm
  - Over temperature alarm
  - Battery low alarm
  - Low voltage disconnect alarm
- Remote Monitoring
  - Output Voltage and Current
  - Battery Voltage
  - Power rectifier Voltage
  - AC Mains Voltage
  - System Temperature
- Remote Control
  - Power rectifier on/off
  - Battery backup connect/disconnect
- Internally hosted webpage, plug-and-play, no additional software required
- Internal data storage via SD card and downloadable .CSV file



\*\*NFPA® Certified consultant on staff



**LISTED**  
536153  
UL 2524  
CERTIFIED  
SAFETY SIGNALLING

DC Output Models Only

DC UPS Sizing Chart	Battery Capacity				
Average Constant Current Draw	7Ah	14Ah	35Ah	50Ah	100Ah
<1 Amps	~6 hours	~12 hours	~24 hours*	~48 hours*	~96 hours*
1 to 2.5 Amps	~3 hours	~6 hours	~12 hours	~24 hours*	~48 hours*
2.5 to 5 Amps	~1 hour	~3 hours	~6 hours	~12 hours	~24 hours*

\*4 hours w/ generator    \*12 hours complies with NFPA    \*24 hours complies with IFC  
 \*\*Actual battery backup times may vary depending on the load, operating temperature, and the age of the batteries

AC UPS Sizing Chart	Battery Capacity				
Average Power Draw	7Ah	14Ah	35Ah	50Ah	100Ah
<30 Watts	~6 hours	~12 hours	~24 hours*	~48 hours*	~96 hours*
30 to 70 Watts	~3 hours	~6 hours	~12 hours	~24 hours*	~48 hours*
70 to 100 Watts	~1 hour	~3 hours	~6 hours	~12 hours	~24 hours*

\*4 hours w/ generator    \*12 hours complies with NFPA    \*24 hours complies with IFC  
 \*\*Actual battery backup times may vary depending on the load, operating temperature, and the age of the batteries

# PUBLIC SAFETY

## PS-MU Series

### Models, Specifications

	Model Number	Power Supply Amps	Output Voltage VAC	Output Voltage VDC	Battery Amp Hours
AC Output Models	PS-4110-35MU	4	110		35
	PS-4110-50MU	4	110		50
	PS-4110-100MU	4	110		100

UL 2524 Certified for DC Output Models Only

DC Output Models	PS-2012-35MU	20		14.4	35
	PS-1024-35MU	10		28.8	35
	PS-548-35MU	5		57.6	35
	PS-4012-35MU	40		14.4	35
	PS-2024-35MU	20		28.8	35
	PS-1048-35MU	10		57.6	35
	PS-2012-50MU	20		14.4	50
	PS-1024-50MU	10		28.8	50
	PS-548-50MU	5		57.6	50
	PS-4012-50MU	40		14.4	50
	PS-2024-50MU	20		28.8	50
	PS-1048-50MU	10		57.6	50
	PS-2012-100MU	20		14.4	100
	PS-1024-100MU	10		28.8	100
	PS-4012-100MU	40		14.4	100
	PS-2024-100MU	20		28.8	100

Larger Sizes Available. Contact us for a Quote

## DAL Series

### NFPA Alarm Relay Unit

The DAL was designed to meet the demands of the NFPA® 72 & 1221 fire safety codes. It provides the necessary dry contact alarms for DC UPS systems for public safety BDA and DAS networks. The DAL add-on allows you to turn any UPS system into a NFPA® compliant battery backup.

### Features

- Form C, Dry contact alarm outputs
  - Low Battery- Preset for lead acid type batteries
  - Charger Fail, AC Fail
- Low Voltage Disconnect
- Diode Isolated battery terminals
- Push to test alarm function

### Models, Specifications

Model Number	Input Voltage
DAL-12	10-15
DAL-24	22-30
DAL-48	46-60







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## PSRM Series

Rack Mount Power Supply with BMS & NFPA® 1221 Alarms

The PSRM-NFP Series are 750 Watt power supplies with an integrated Battery Management System and NFPA® 1221 compliant alarms. The AC to DC rectifier provides up to 750 Watts filtered DC output. Battery charging, AC fail battery revert, and Low Voltage Disconnect are provided by an integrated Battery Management System. Alarming is provided by NO/NC form C contacts on the rear panel and visual LED indicators on the front. Alarms include AC fail, charger fail, 70% battery discharge, and battery fail. The PSRM-NFP series is available in 12, 24, & 48 VDC output.

An ethernet/ web interface is included for monitoring and control of the power system and alarms (PSRM-NFPMU Series).

### Features

- Integrated smart charger and low voltage battery disconnect
- Manual battery disconnect switch
- NFPA® 1221 compliant form C alarm outputs
- LED alarm indicators

### Additional Features for MU Models

- Internet ready with standard ethernet connection
- Remote monitoring of voltage, current, temperature, and external alarm input
- Remote control of power supply, battery connection, and alarm outputs
- Configurable logging, alarms, email notifications, and SNMP traps
- Front panel smart display



PSRM-xxxxNFP  
3.5" H x 19" W x 13" D



PSRM-xxxxNFPMU  
3.5" H x 19" W x 13" D



Rear View



### Models, Specifications

Model Number	Output Current (Amps)	Output Voltage VDC	Input Voltage VAC	Efficiency
PSRM-5012NFP	50	13.8	90-264	89%
PSRM-2524NFP	25	28	90-264	90.5%
PSRM-1248NFP	12	55	90-264	92%
PSRM-5012NFPMU	50	13.8	90-264	89%
PSRM-2524NFPMU	25	28	90-264	90.5%
PSRM-1248NFPMU	12	55	90-264	92%

## PSBC-1600NFP Series

Battery Charger with NFPA® 1221 Compliant Alarms

The PSBC-1600NFP Series are 1600 Watt rack mount battery chargers with NFPA® compliant alarms. The Smart Charger provides up to 1600 Watts DC output in 3 stages for optimal battery performance. NFPA® 1221 compliant alarming is provided by NO/NC form C contacts on the rear panel and visual LED indicators on the front. Alarms include AC fail, charger fail, 70% battery discharge, and battery fail. The PSBC-1600NFP Series is available in 12, 24, & 48V Output.

### Features

- Active Power Factor Correction
- 3-Stage 1600-Watt Smart Battery Charger
- Battery Under Voltage / Battery No Connection / Short Circuit / Over Voltage / Over Temperature Protection
- Form C Alarm Outputs for AC Fail, Charger Fail, 70% Battery Discharge, and Battery Fail

### Models & Specifications

Model Number	Output Voltage VDC	Max Charge Current	Input Voltage VAC	Battery Capacity (Up to)
PSBC-160012NFP	13.8	100 Amps	90-264	1000 Ah
PSBC-160024NFP	27.6	55 Amps	90-264	550 Ah
PSBC-160048NFP	55.2	27.5 Amps	90-264	270 Ah



1.75" H x 19" W x 13" D

## American Communication Systems

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