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# Public Safety Systems

Solutions for AC and DC



- The only standalone UL 2524 Certified AC and DC Uninterruptible Power Supply
- Consolidate power in Fiber DAS communication systems
- Temperature compensated power charger
- Extended temperature range for mission critical installation in harsh environments
- Remote monitoring, SNMP and event logs
- NFPA 1221 dry contact alarms
- Wide range Automatic Voltage Regulation (AVR) lengthens battery life by providing protection without transferring to backup mode during voltage surge or sag
- Intuitive equipment selection guide for configuring power and backup time requirements

**The right solution for your application, whether it is a simple repeater or a large DAS system, Alpha has public safety communications power equipment to ensure your critical applications remain protected and operational.**

Alpha's Public Safety product line offers options for both AC & DC loads with two enclosure sizes, up to two x (4) position battery trays, numerous battery capacity options and multiple mounting configurations. This flexibility ensures that your mission critical public safety equipment is protected by a system that meets your exact requirements. With AC options up to 1100VA and DC options up to 2000W, Alpha's Public Safety systems can readily handle large loads for 2-, 12- and 24-hour periods.

The NEMA 4 enclosures integrated with power equipment and batteries results in Public Safety systems which meet and are certified to UL2524. This certification ensures that these systems are flawlessly designed and manufactured to the industry leading standards for mission-critical communication devices.

With 40-years of outdoor power equipment design, Alpha's expertise in power electronics, enclosure design, batteries, and monitoring, come together to ensure resilient and reliable power.

# Public Safety Indoor Backup Power

Mechanical		
Model	PS27	PS41
<b>Construction:</b>	Single Wall Aluminum Construction	Single Wall Aluminum Construction
<b>Color:</b>	Red Powder Coat Finish	Red Powder Coat Finish
<b>Dimensions (w/plinth):</b>	31"H x 22"W x 19.25"D	45"H x 27.25"W x 30.25"D
<b>Mounting:</b>	Ground / Wall / Plinth	Ground / Plinth
Electrical		
AC Load System		
<b>Power Supply:</b>	FXM 350	FXM 650 or FXM 1100
<b>Input:</b>	120VAC	120VAC
<b>Output:</b>	120VAC	120VAC
<b>Battery Bus:</b>	FXM +24VDC	FXM 650 +24VDC FXM 1100 -48VDC
<b>Hot Replacement:</b>	w/ UATS Option	w/ UATS Option
DC Load System		
<b>Power Supply:</b>	PSU 48/650	Cordex 48-1.2kw
<b>Input:</b>	120VAC	240VAC (120VAC de-rated)
<b>Output/Battery Bus:</b>	-48VDC	-48VDC
<b>Hot Replacement:</b>	*Toolless hot swap replacement of power module.	
Environmental		
<b>Operating Temperature:</b>	Indoor: 10 to 40°C	
<b>NEMA Rating:</b>	UL 50 UL 50E; CSA C22.2 No. 94.1 CSA C22.2 No. 94.2 TYPE 4 ENCLOSURE UL 50 UL 50E; CSA C22.2 No. 94.1 CSA C22.2 No. 94.2 TYPE 4 ENCLOSURE	
Monitoring and Control		
<b>Features:</b>	Event logs, auto battery test, temperature compensation	
<b>Dry Contacts:</b>	AC mains fail, charger fail, low battery	
<b>Communications:</b>	SNMP, TCP/IP web interface	
Agency Compliance		
<b>NFPA Applicable Requirements:</b>	NFPA 1221 120VAC Power Systems certified to UL2524 -48VDC Power systems pending UL2524 certification	
<b>Safety:</b>	UL1778	



PS27 Enclosure



PS41 Enclosure



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# Public Safety Indoor Backup Power

Model Numbers (see ordering guide for full product and battery sizing selection)	
<b>-48VDC Power Systems</b>	
0570190-101	PS27-2220, Indoor, PSU48-650, -48VDC output, Red
0570191-101	PS41-2730-Indoor, Cordex 48-1.2, 48VDC, 1 Battery Tray, Red
0570192-101	PS41-2730-Indoor-Cordex 48-1.2, 48VDC, 2 Battery Tray, Red
0570196-101	PS27-2220, Indoor, PSU23-650, -24VDC output, Red
<b>-48VDC Rectifier Modules</b>	
010-570-20-041	Cordex CXRC 48-500/650W 120/208-240VAC Module (for spares)
010-619-20-041	Cordex CXRF 48-1.2kW 120/208-240VAC Module
<b>120VAC Power Systems (UL 2524 Certified)</b>	
0570214-001	PS27-2220-Indoor, FXM350, 120VAC, 24VDC bus, Red
0570188-001	PS41-2730, Indoor, FXM 650, 120VAC, 24VDC Bus, 1 Battery Tray, Red
0570187-001	PS41-2730, Indoor, FXM650, 120VAC, 24VDC bus, 2 Battery Trays, Red
0570189-001	PS41-2730, Indoor, FXM1100, 120VAC, 48VDC Bus, 2 Battery Trays, Red
<b>Universal Automatic Transfer Switch Option (120VAC)</b>	
020-168-27	UATS & Convenience Receptacle, 120VAC Allows the FXM Power Supply to be removed without turning off power to the load.
<b>Mounting Options</b>	
740-760-23	Plinth, PS27, 4" Base Assembly, Aluminum, Red
0370231-002	Plinth, PS41, 4" Base Assembly, Aluminum, Red
0370531-001	Wall Mount Bracket, PS27
<b>Batteries</b>	
181-013-10	Battery, 12V, 34Ah, Standard Life General Purpose VRLA AGM Battery (AGM)
1810477	Battery, 12V, AGM, North Star Battery, NSB 100FT HT Red
1810226	Battery, 12V AGM, AlphaCell XTV 100 Top Terminal
1810227	Battery, 12V AGM, AlphaCell XTV, 150A Top Terminal
1810228	Battery, 12V AGM, AlphaCell XTV, 195 Top Terminal
1810229	Battery, 12V AGM, AlphaCell XTV, 240 Top Terminal
1810445	Battery, 12V AGM, AlphaCell XTV, 210 HP front Terminal



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