

# Public Safety Backup Power Systems

ORDERING GUIDE



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# GUIDE FOR SELECTING NFPA COMPLIANT INDOOR POWER SYSTEMS FOR 120VAC AC LOADS

## Information required to select system and battery

1) Load in watts

2) Run time required: 12 or 24 Hours

3) Does the specification require an End of Life design margin added for battery?

The 25% increase will ensure that the battery continues to provide the specified run time once it has degraded to 80% capacity.

## Ordering Equipment:

Item 1: Base System	Includes Type 4 Rated Enclosure, Power Supply/Charger, Alarms, battery tray(s) and battery cabling
Item 2: Plinth	Matching red color riser for cabinet
Item 3: Battery Type/Quantity	Battery Type and quantity
Item 4: UATS Option	Recommended automatic power supply bypass option



### Alpha Technologies Ltd.

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## 120 Vac Loads

### 2 Hour Rate System Selection with an End of Life Design Margin of 25%

LOAD	BASE SYSTEM		PLINTH	BATTERY		
Watts	P/N	Description	P/N	Qty	P/N	Description
160	0570214-001	PS27, FXM350-24, 1BT	740-760-23	2	181-013-10	34AH Std Life Battery
300	0570214-001	PS27, FXM350-24, 1BT	740-760-23	2	1810226	AlphaCell XTV 100
400	0570188-001	PS41, FXM650-24, 1BT	0370231-002	2	1810226	AlphaCell XTV 150
600	0570188-001	PS41, FXM650-24, 1BT	0370231-002	2	1810229	AlphaCell XTV 240
1000	0570189-001	PS41, FXM1100-48, 2BT	0370231-002	4	1810229	AlphaCell XTV 240

### 12 Hour Rate System Selection

LOAD	BASE SYSTEM		PLINTH	BATTERY		
Watts	P/N	Description	P/N	Qty	P/N	Description
50	0570214-001	PS27, FXM350, 1BT	740-760-23	2	181-013-10	34Ah Std Life Battery
75	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810226	Alphacell XTV 100
110	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810227	Alphacell XTV 150
160	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810226	AlphaCell XTV 100
325	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810477	NSB 100FT HT Red
450	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810228	AlphaCell XTV 195
500	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810229	AlphaCell XTV 240
580	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810228	AlphaCell XTV 195
700	0570189-001	PS41, FXM1100, 2BT	0370231-002	8	1810229	AlphaCell XTV 240
1000	0570189-001	PS41, FXM1100, 2BT	0370231-002	8	1810445	AlphaCell 210 HP

### 12 Hour Rate System Selection with an End Of Life Design Margin of 25%

LOAD	BASE SYSTEM		PLINTH	BATTERY		
Watts	P/N	Description	P/N	Qty	P/N	Description
40	0570214-001	PS27, FXM350, 1BT	740-760-23	2	181-013-10	34Ah Std Life Battery
60	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810226	Alphacell XTV 100
90	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810227	Alphacell XTV 150
125	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810226	AlphaCell XTV 100
260	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810477	NSB 100FT HT Red
360	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810228	AlphaCell XTV 195
400	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810229	AlphaCell XTV 240
480	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810228	AlphaCell XTV 195
520	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810229	AlphaCell XTV 240
600	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810445	AlphaCell 210 HP
1000	0570189-001	PS41, FXM1100, 2BT	0370231-002	8	1810445	AlphaCell 210 HP

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## 120 Vac Loads

### 24 Hour Rate System Selection

LOAD	BASE SYSTEM		PLINTH	BATTERY		
Watts	P/N	Description	P/N	Qty	P/N	Description
25	0570214-001	PS27, FXM350, 1BT	740-760-23	2	181-013-10	34Ah Std Life Battery
40	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810226	AlphaCell XTV 100
60	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810227	AlphaCell XTV 150
76	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810477	NSB 100FT HT Red
150	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810477	NSB 100FT HT Red
230	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810228	AlphaCell XTV 195
270	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810229	AlphaCell XTV 240
325	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810228	AlphaCell XTV 195
350	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810229	AlphaCell XTV 240
500	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810445	AlphaCell 210 HP
580	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810445	AlphaCell 210 HP
750	0570189-001	PS41, FXM1100, 2BT	0370231-002	8	1810445	AlphaCell 210 HP

### 24 Hour Rate System Selection with an End Of Life Design Margin 25%

LOAD	BASE SYSTEM		PLINTH	BATTERY		
Watts	P/N	Description	P/N	Qty	P/N	Description
20	0570214-001	PS27, FXM350, 1BT	740-760-23	2	181-013-10	34Ah Std Life Battery
40	0570214-001	PS27, FXM350, 1BT	740-760-23	4	181-013-10	34Ah Std Life Battery
50	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810227	AlphaCell XTV 150
60	0570214-001	PS27, FXM350, 1BT	740-760-23	2	1810477	NSB 100FT HT Red
120	0570214-001	PS27, FXM350, 1BT	740-760-23	4	1810477	NSB 100FT HT Red
175	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810228	AlphaCell XTV 195
215	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810229	AlphaCell XTV 240
260	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810228	AlphaCell XTV 195
280	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810229	AlphaCell XTV 240
400	0570187-001	PS41, FXM650, 2BT	0370231-002	6	1810445	AlphaCell 210 HP
465	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810445	AlphaCell 210 HP
580	0570187-001	PS41, FXM650, 2BT	0370231-002	8	1810445	AlphaCell 210 HP

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# GUIDE FOR SELECTING NFPA COMPLIANT INDOOR POWER SYSTEMS FOR -48V DC LOADS

## Information required to select system and battery

1) Load in watts

2) Run time required: 12 or 24 Hours

3) Does the specification require a 1.25 End of Life margin added?

The 25% increase will ensure that the battery continues to provide the specified run time once it has degraded to 80% capacity.

## Ordering Equipment:

Item 1: Base System	Includes Type 4 Rated Enclosure, Power Supply/Charger, Alarms, battery tray(s) and battery cabling
Item 2: Plinth	Matching red color riser for cabinet
Item 3: Rectifier Module/Quantity	Modular Rectifier (Power Supply) to be ordered separate for PS41 systems
Item 4: Battery Type/Quantity	Battery Type and quantity are to be ordered as a separate line item
Item 5: Distribution Circuits	Order additional fuse links or circuit breakers as needed (Base System includes 4x 2A; 4x 5A GMT Fuse links)



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# -48VDC Loads

## 12 Hour Rate System Selection

LOAD	BASE SYSTEM		PLINTH	RECTIFIER MODULE			BATTERY		
	Watts	P/N		Description	P/N	Qty @240VAC	P/N	Description	Qty
100	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	181-013-10	34Ah Std Life Battery
217	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810226	Alphacell XTV 100
375	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810477	NSB 100FT HT Red
416	0570191-001	PS41, 48V, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	4	1810229	AlphaCell XTV 240
750	0570192-001	PS41, 48V, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810228	AlphaCell XTV 195
830	0570192-001	PS41, 48V, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810229	AlphaCell XTV 240
1600	0570192-001	PS41, 48V, 2BT	0370231-002	**2	010-619-20-041	Cordex 48-1.2kW	8	1810445	AlphaCell 210 HP

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## 12 Hour Rate System Selection with an End Of Life Design Margin of 25%

LOAD	BASE SYSTEM		PLINTH	RECTIFIER MODULE			BATTERY		
	Watts	P/N		Description	P/N	Qty @240VAC	P/N	Description	Qty
80	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	181-013-10	34Ah Std Life Battery
173	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810226	Alphacell XTV 100
300	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810477	NSB 100FT HT Red
330	0570191-001	PS41, 48V, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	4	1810229	AlphaCell XTV 240
600	0570192-001	PS41, 48V, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810228	AlphaCell XTV 195
665	0570192-001	PS41, 48V, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810229	AlphaCell XTV 240
1280	0570192-001	PS41, 48V, 2BT	0370231-002	**2	010-619-20-041	Cordex 48-1.2kW	8	1810445	AlphaCell 210 HP

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## -48VDC Loads

### 2 Hour Rate System Selection with and End of Life Design Margin of 25%

LOAD	BASE SYSTEM		PLINTH	RECTIFIER MODULE			BATTERY		
	Watts	P/N		Description	P/N	Qty	Description	Qty	P/N
425	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	010-570-20-041	Cordex 48-650	4	181-013-10	34AH Std Life Battery
740	0570191-001	PS41, 48V, 1BT	0370231-002	1	010-619-20-041	Cordex 48-1.2kW	4	1810226	AlphaCell XTV 100
1000	0570191-001	PS41, 48V, 1BT	0370231-002	1	010-619-20-041	Cordex 48-1.2kW	4	1810227	AlphaCell XTV 150
1500	0570191-001	PS41, 48V, 1BT	0370231-002	2	010-619-20-041	Cordex 48-1.2kW	4	1810229	AlphaCell XTV 240

### 24 Hour Rate System Selection

LOAD	BASE SYSTEM		PLINTH	RECTIFIER MODULE			BATTERY		
	Watts	P/N		Description	P/N	Qty @240VAC	Description	Qty	P/N
50	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	181-013-10	34Ah Std Life Battery
110	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810226	Alphacell XTV 100
200	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810477	NSB 100FT HT Red
225	0570191-001	PS41, CX 48-1.2, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	4	1810229	AlphaCell XTV 240
400	0570192-001	PS41, CX 48-1.2, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810228	AlphaCell XTV 195
450	0570192-001	PS41, CX 48-1.2, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810229	AlphaCell XTV 240
870	0570192-001	PS41, CX 48-1.2, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810445	AlphaCell 210 HP

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### 24 Hour Rate System Selection with an End Of Life Design Margin 25%

LOAD	BASE SYSTEM		PLINTH	RECTIFIER MODULE			BATTERY		
	Watts	P/N		Description	P/N	Qty	Part Number	Description	Qty
40	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	181-013-10	34Ah Std Life Battery
85	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810226	Alphacell XTV 100
160	0570190-001	PS27, PSU48-650, 1BT	740-760-23	Included	*010-570-20-041	Cordex 48-650	4	1810477	NSB 100FT HT Red
180	0570191-001	PS41, CX 48-1.2, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	4	1810229	AlphaCell XTV 240
320	0570192-001	PS41, CX 48-1.2, 1BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810228	AlphaCell XTV 195
360	0570192-001	PS41, CX 48-1.2, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810229	AlphaCell XTV 240
695	0570192-001	PS41, CX 48-1.2, 2BT	0370231-002	**1	010-619-20-041	Cordex 48-1.2kW	8	1810445	AlphaCell 210 HP

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\*Spare module part number

\*\*Qty provided based on 240VAC input. For 120VAC inputs, derate and add power modules as needed.

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