

## Standard Power Systems for Access Control

Preconfigured single and dual voltage systems for 4, 8, and 16 doors

Full control Outputs use [C4 or C8 boards](#) to provide individual lock control with inputs and FAI

FAI Outputs use [F8 boards](#) to provide Constant / Fail Safe / Fail Secure selection for each output

Aux Outputs use [D8 boards](#) to provide individually fused, constant outputs for powering auxiliary devices



{jatabs type="content" position="top" width="650" heightTabs="30" height="1500" moustype="click" animType="animMoveHor" skipAnim="false" duration=1000 } [tab title="Products"]

**Four Door Access**

|              |            |            |              |
|--------------|------------|------------|--------------|
| Full Control | Aux Output | FAI Output | Model Number |
|--------------|------------|------------|--------------|

|   |  |  |                            |
|---|--|--|----------------------------|
| 4 |  |  | <a href="#">FPO75-C4E1</a> |
|---|--|--|----------------------------|

|   |  |  |                             |
|---|--|--|-----------------------------|
| 4 |  |  | <a href="#">FPO150-C4E1</a> |
|---|--|--|-----------------------------|

6A/12

12A/12 c

|                     |   |   |  |                              |                |
|---------------------|---|---|--|------------------------------|----------------|
| <a href="#">8E1</a> | 4 | 8 |  | <a href="#">FPO75/75-C4D</a> | 6A/12 or 3A/24 |
|---------------------|---|---|--|------------------------------|----------------|

|                      |   |   |  |                              |                |
|----------------------|---|---|--|------------------------------|----------------|
| <a href="#">D8E1</a> | 4 | 8 |  | <a href="#">FPO75/150-C4</a> | 6A/12 or 3A/24 |
|----------------------|---|---|--|------------------------------|----------------|

|                      |   |   |  |                              |        |
|----------------------|---|---|--|------------------------------|--------|
| <a href="#">D8E1</a> | 4 | 8 |  | <a href="#">FPO75-B100C4</a> | 2A/24* |
|----------------------|---|---|--|------------------------------|--------|

|                          |            |            |              |  |  |
|--------------------------|------------|------------|--------------|--|--|
| <b>Eight Door Access</b> | Ä Ä Ä Ä Ä  |            |              |  |  |
| Full Control             | Aux Output | FAI Output | Model Number |  |  |

|  |   |  |  |                            |          |
|--|---|--|--|----------------------------|----------|
|  | 8 |  |  | <a href="#">FPO75-C8E1</a> | 6A/12 or |
|--|---|--|--|----------------------------|----------|

|  |   |  |  |                             |          |
|--|---|--|--|-----------------------------|----------|
|  | 8 |  |  | <a href="#">FPO150-C8E1</a> | 12A/12 c |
|--|---|--|--|-----------------------------|----------|

|  |   |  |  |                             |          |
|--|---|--|--|-----------------------------|----------|
|  | 8 |  |  | <a href="#">FPO250-C8E1</a> | 20A/12 c |
|--|---|--|--|-----------------------------|----------|

|                    |   |   |  |                             |                 |
|--------------------|---|---|--|-----------------------------|-----------------|
| <a href="#">E2</a> | 8 | 8 |  | <a href="#">FPO150-C8D8</a> | 12A/12 or 6A/24 |
|--------------------|---|---|--|-----------------------------|-----------------|

|                    |   |   |  |                             |                  |
|--------------------|---|---|--|-----------------------------|------------------|
| <a href="#">E2</a> | 8 | 8 |  | <a href="#">FPO250-C8D8</a> | 20A/12 or 10A/24 |
|--------------------|---|---|--|-----------------------------|------------------|

|                     |   |   |  |                              |                |
|---------------------|---|---|--|------------------------------|----------------|
| <a href="#">8E2</a> | 8 | 8 |  | <a href="#">FPO75/75-C8D</a> | 6A/12 or 3A/24 |
|---------------------|---|---|--|------------------------------|----------------|

|                      |   |   |  |                              |                |
|----------------------|---|---|--|------------------------------|----------------|
| <a href="#">D8E2</a> | 8 | 8 |  | <a href="#">FPO75/150-C8</a> | 6A/12 or 3A/24 |
|----------------------|---|---|--|------------------------------|----------------|

Access Control Power

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|   |   |  |                              |
|---|---|--|------------------------------|
| 8 | 8 |  | <a href="#">FPO150/150-C</a> |
|---|---|--|------------------------------|

[8D8E2](#) 12A/12 or 6A/24

|   |   |  |                              |
|---|---|--|------------------------------|
| 8 | 8 |  | <a href="#">FPO150/250-C</a> |
|---|---|--|------------------------------|

[8D8E2](#) 12A/12 or 6A/24

|   |   |  |                              |
|---|---|--|------------------------------|
| 8 | 8 |  | <a href="#">FPO250/250-C</a> |
|---|---|--|------------------------------|

[8D8E2](#) 20A/12 or 10A/24

|   |   |  |                              |
|---|---|--|------------------------------|
| 8 | 8 |  | <a href="#">FPO150-B100C</a> |
|---|---|--|------------------------------|

[8D8E2](#) 4A/24\*

|   |   |  |                              |
|---|---|--|------------------------------|
| 8 | 8 |  | <a href="#">FPO250-B100C</a> |
|---|---|--|------------------------------|

[8D8E2](#) 8A/24\*

|  |  |   |                             |
|--|--|---|-----------------------------|
|  |  | 8 | <a href="#">FPO75-F8PE1</a> |
|--|--|---|-----------------------------|

6A/12 or

|  |  |   |                              |
|--|--|---|------------------------------|
|  |  | 8 | <a href="#">FPO150-F8PE1</a> |
|--|--|---|------------------------------|

12A/12

|  |  |   |                              |
|--|--|---|------------------------------|
|  |  | 8 | <a href="#">FPO250-F8PE1</a> |
|--|--|---|------------------------------|

20A/12

|                            |            |            |              |
|----------------------------|------------|------------|--------------|
| <b>Sixteen Door Access</b> |            |            |              |
| Full Control               | Aux Output | FAI Output | Model Number |

|    |    |  |                             |
|----|----|--|-----------------------------|
| 16 | 16 |  | <a href="#">FPO150-2C82</a> |
|----|----|--|-----------------------------|

[D8E4](#) 12A/12 or 6A/24

|    |    |  |                             |
|----|----|--|-----------------------------|
| 16 | 16 |  | <a href="#">FPO250-2C82</a> |
|----|----|--|-----------------------------|

[D8E4](#) 20A/12 or 10A/24

## Access Control Power

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|                |    |    |    |                              |                  |
|----------------|----|----|----|------------------------------|------------------|
| <u>2D8E4</u>   | 16 | 16 |    | <a href="#">FPO75/75-2C8</a> | 6A/12 or 3A/24   |
| <u>C82D8E4</u> | 16 | 16 |    | <a href="#">FPO150/150-2</a> | 12A/12 or 6A/24  |
| <u>C82D8E4</u> | 16 | 16 |    | <a href="#">FPO150/250-2</a> | 12A/12 or 6A/24  |
| <u>C82D8E4</u> | 16 | 16 |    | <a href="#">FPO250/250-2</a> | 20A/12 or 10A/24 |
| <u>C82D8E4</u> | 16 | 16 |    | <a href="#">FPO150-B1002</a> | 4A/24*           |
| <u>C82D8E4</u> | 16 | 16 |    | <a href="#">FPO250-B1002</a> | 8A/24*           |
| <u>1</u>       |    |    | 16 | <a href="#">FPO250-2F8PE</a> | 20A/12 or 10A/24 |

\*To calculate system loading with a FPO/B100 see App Note [AN07](#)

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## System Features

Single voltage systems are user selectable for either 12 or 24VDC. Dual voltage systems are user selectable on each of the two provided power supplies. Available with either fused or power limited outputs - see datasheet for proper model number.

These preconfigured access power systems have relay controlled outputs individually programmable to failsafe, failsecure, dry contact, continuous voltage output, and fire alarm interface for egress lock control.

[/tab] [tab title="Overview"] **One power supply in one cabinet for basic single voltage requirements.**

Products offered specifically for use with access control systems are preconfigured in one single enclosure, to provide the features and power levels needed in a modern access control system.

### Product highlights

- FlexPower feature set
- Listed for Fire Alarm, Intrusion, Access Control, CCTV and Mass Notification
- Single or dual power supplies, each one user selectable for 12 or 24VDC
- Current capabilities to support any style lock or control panel
- Multiple output zones provide independent protection
- Dual voltage systems provide output zone programming for either system voltage
- Access control trigger inputs control outputs programmable for failsafe, failsecure, dry contact, or voltage output
- Battery charge capability to 80 Amphours
- Fire alarm interface for control of egress locks, programmable by output
- Full fault detection and reporting
- Field expandable without affecting agency listings
- Provided in a locking, steel enclosure

### Reliability and Safety

- Lifetime warranty
- Easily obtainable and replaceable automotive style ATM fuses
- Elimination of shock hazards
- Elimination of shock hazards
- Shrouded AC connectors
- Insulated heatsinks
- Conformal coated PCBs
- Microprocessor based charging for increased battery and system reliability **Agency**

### Listings

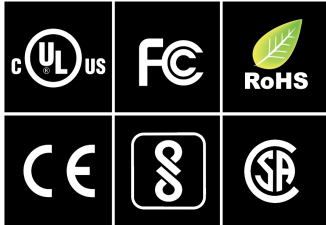
USA

- UL 294 / UL 603 / UL 1076

- FCC Part 15, Subpart B

CANADA

- ULC S318 / ULC S319
- CSA C22.2 # 205



[Product Warranty](#)

[/tab] [tab title="Technical Documents"]

|        |           |                |           |
|--------|-----------|----------------|-----------|
| 4 door | Datasheet | Install Manual | CAD Files |
|--------|-----------|----------------|-----------|

|            |                    |                    |                     |                    |
|------------|--------------------|--------------------|---------------------|--------------------|
| FPO75-C4E1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
|------------|--------------------|--------------------|---------------------|--------------------|

|                  |                    |                    |                     |                    |
|------------------|--------------------|--------------------|---------------------|--------------------|
| FPO150-C4E1      | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/75-C4D8E1  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/150-C4D8E1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75-B100C4D8E1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |

|        |           |                |           |
|--------|-----------|----------------|-----------|
| 8 door | Datasheet | Install Manual | CAD Files |
|--------|-----------|----------------|-----------|

|                   |                    |                    |                     |                    |
|-------------------|--------------------|--------------------|---------------------|--------------------|
| FPO75-C8E1        | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-C8E1       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-C8E1       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-C8D8E2     | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-C8D8E2     | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/75-C8D8E2   | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/150-C8D8E2  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/150-C8D8E2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-C8D8E2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250/250-C8D8E2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B100C8D8E2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-B100C8D8E2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |

|         |           |                |           |
|---------|-----------|----------------|-----------|
| 16 door | Datasheet | Install Manual | CAD Files |
|---------|-----------|----------------|-----------|

|                 |                    |                    |                     |                    |
|-----------------|--------------------|--------------------|---------------------|--------------------|
| FPO150-2C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
|-----------------|--------------------|--------------------|---------------------|--------------------|

|                     |                    |                    |                     |                    |
|---------------------|--------------------|--------------------|---------------------|--------------------|
| FPO250-2C82D8E4     | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/75-2C82D8E4   | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/150-2C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250/250-2C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B1002C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-B1002C82D8E4 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| F8 control          | Datasheet          |                    | Install Manual      | CAD Files          |

|               |                    |                    |                     |                    |
|---------------|--------------------|--------------------|---------------------|--------------------|
| FPO75-F8PE1   | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-F8PE1  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-F8PE1  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO250-2F8PE1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |

[/tab] [tab title="Support"]

[Troubleshooting Guide](#)

[Factory Contact](#)

[Business Contact](#)

[FPO Troubleshooting](#) [Email Customer Service](#) [Accounting Office](#)

[Accessory Troubleshooting](#) [Email Technical Department](#) [Area Sales Representatives](#)

[/tab] [tab title="Tools & Software"] **Tools & Software**

Excel spreadsheets designed by the LifeSafety Power technical department to aid the installer in required calculations and example configurations of LifeSafety Power equipment when used in commonly found system applications.

Calculators / Software

[B100 Power Calculator](#)

[PowerCom-USB Download](#)

[Ohms Law Calculator](#)

[Battery Size Calculator](#)

[Battery Capacity Calculator](#)

[Wire Size Calculator](#)

[Voltage Drop Calculator](#)

[FlexCalculator Suite](#)

Application Notes

[AN02 iStar pro access control power](#)

[AN03 Istar Ultra access control power](#)

[AN04 iStarEx access control power](#)

[AN10 Mercury 2 door access power](#)

[AN11 Mercury 8 door access power](#)

[AN12 Mercury 8 door access power, lower cost](#)

[AN13 Mercury 16 door access power](#)

[AN14 Keyscan & distributed power](#)

[AN15 Kantech & distributed power](#)

[AN17 D8 single voltage](#)

[AN18 D8 dual voltage](#)

[AN19 FlexPower buss structure](#)

[AN20 LSP Monitoring Guide](#)

[/tab] {/jatabs}