

# MCLASS

## Integrated Mercury power systems

All-in-one UL/cUL power solutions for 2, 4, 8 and 16 door Mercury Security access controllers. Single, Dual Voltage / Networked.

[Mercury Product Guide](#) / [MCLASS Enclosure Guide](#)



{jatabs type="content" position="top" width="650" heightTabs="30" height="1850" mousetype="click" animType="animMoveHor" skipAnim="false" duration=1000 } [tab title="Products"]

| Standard Mercury Power |                              |                 |              |
|------------------------|------------------------------|-----------------|--------------|
| Doors                  | Single Voltage               | Current/Voltage | Enclosure    |
| 2                      | <a href="#">FPO75-D8PE1M</a> | 6A/12V, 3A/24V  | 14Hx12Wx4.5D |
| 4                      | <a href="#">FPO75-D8PE2M</a> | 6A/12V, 3A/24V  | 20Hx16Wx4.5D |
| 8                      | <a href="#">FPO75-D8PE4M</a> | 6A/12V, 3A/24V  | 24Hx20Wx6.5D |
| 8                      | <a href="#">FPO75-D8PE6M</a> | 12A/12V, 6A/24V | 30Hx23Wx6.5D |

|              |  |                     |              |
|--------------|--|---------------------|--------------|
| 16           | <a href="#">FPO150-D8PE4M1</a>         | 12A/12V, 6A/24V     | 24Hx20Wx6.5D |
| 16           | <a href="#">FPO150-D8PE6M1</a>         | 12A/12V, 6A/24V     | 30Hx23Wx6.5D |
| 12           | <a href="#">FPO150-D8PE8M</a>          | 12A/12V, 6A/24V     | 36Hx30Wx6.5D |
| 16           | <a href="#">FPO150-2D8PE8M1</a>        | 12A/12V, 6A/24V     | 36Hx30Wx6.5D |
| 16           | <a href="#">FPO150-2D8PE8M2</a>        | 12A/12V, 6A/24V     | 36Hx30Wx6.5D |
| <b>Doors</b> | <b>Dual Voltage</b>                    |                     |              |
| 2            | <a href="#">FPO75-B100C4PE1M</a>       | 2A/12V and 2A/24V   | 14Hx12Wx4.5D |
| 4            | <a href="#">FPO75-B100C4D8PE2M</a>     | 2A/12V and 2A/24V   | 20Hx16Wx4.5D |
| 8            | <a href="#">FPO150-B100C8D8PE4M1</a>   | 4A/12V and 4A/24V   | 24Hx20Wx6.5D |
| 8            | <a href="#">FPO150-B100C8D8PE6M</a>    | 4A/12V and 4A/24V   | 30Hx23Wx6.5D |
| 16           | <a href="#">FPO150/250-2C82D8PE4M1</a> | 12A/12V and 10A/24V | 24Hx20Wx6.5D |
| 12           | <a href="#">FPO75/150-C4C82D8PE8M</a>  | 6A/12V and 6A/24V   | 36Hx30Wx6.5D |

|                                     |   |                     |          |
|-------------------------------------|---|---------------------|----------|
| 16                                  | <a href="#">FPO150/250-2C82D8PE6M1</a>                    | 12A/12V and 10A/24V | 30Hx23W  |
| 16                                  | <a href="#">FPO150/250-2C82D8PE8M1</a>                    | 12A/12V and 10A/24V | 36Hx30W  |
| 16                                  | <a href="#">FPO150/250-2C82D8PE8M2</a>                    | 12A/12V and 10A/24V | 36Hx30W  |
| Managed Mercury Power<br>Doors<br>4 | <b>Dual Voltage</b><br><a href="#">FPO75-B100M8NL4E4M</a> | 2A/12V and 2A/24V   | 24Hx20Wx |
| 8                                   | <a href="#">FPO150-B100D8PM8NL4E4M</a>                    | 4A/12V and 4A/24V   | 24Hx2    |
| 8                                   | <a href="#">FPO150-B100D8PM8NL4E6M</a>                    | 4A/12V and 4A/24V   | 30Hx2    |
| 16                                  | <a href="#">FPO150/250-2D8P2M8NL4E4M1</a>                 | 12A/12V and 10A/24V | 24       |
| 16                                  | <a href="#">FPO150/250-2D8P2M8NL4E6M1</a>                 | 12A/12V and 10A/24V | 30       |
| 16                                  | <a href="#">FPO150/250-2D8P2M8NL4E8M1</a>                 | 12A/12V and 10A/24V | 36       |

16

[FPO150/250-2D8P2M8NL4E8M2](#)

12A/12V and 10A/24V

36

| Enclosures |                        |              |
|------------|------------------------|--------------|
| 2          | <a href="#">E1M</a>    | 14Hx12Wx4.5D |
| 2-4        | <a href="#">E2M</a>    | 20Hx16Wx4.5D |
| 4-8        | <a href="#">E4M</a>    | 24Hx20Wx6.5D |
| 8-16       | <a href="#">E4M1*</a>  | 24Hx20Wx6.5D |
| 4-8        | <a href="#">E6M</a>    | 30Hx23Wx6.5D |
| 8-16       | <a href="#">E6M1</a>   | 30Hx23Wx6.5D |
| 8-12       | <a href="#">E8M</a>    | 36Hx30Wx6.5D |
| 12-16      | <a href="#">E8M1</a>   | 36Hx30Wx6.5D |
| 16         | <a href="#">E8M2</a>   | 36Hx30Wx6.5D |
| 16-18      | <a href="#">E8MH**</a> | 36Hx30Wx6.5D |

[EPLT-1M](#) Mercury expansion plate

\*No battery space for 16 doors

\*\*E8MH all access enclosure

Other configurations possible in standard and managed systems - contact Technical Support

### Integrated Access & Power

- MCLASS all-in-one power systems puts power and Mercury™ panels in one secure locking enclosure
- One AC drop minimizes wall space, simplifies installation, reduces time & labor costs
- FlexPower™ modularity and MCLASS versatility create unlimited system configurations
- Network options for diagnostic monitoring and control of power, battery and connected devices

### Labor Saving Enclosure Design

- Factory pre-wired power section saves configuration time
- Removable backplate simplifies controller wiring

- Large enclosure depth accomodates battery sets
- Multiple knockout areas along all four sides

## **System Refinements**

- Fault detection and reporting to host power supply and over the network with optional NetLink module
- Large enclosures with room for increased power, added output distribution or remote monitoring
- Modular power and distribution boards with snap-in standoffs simplify service and field upgrades
- Cam lock set, tamper switch and backplate hardware to mount the access control panels is included

[/tab] [tab title="Overview"]      **PRODUCT HIGHLITES**

MCLASS unified power systems offers maximum flexibility, functionality and savings to access system designers.

MCLASS enclosures are engineered to house FlexPower™ power management boards alongside Mercury Security access controllers in one compact, secure system. TM

To prevent damage to system electronics, the backplate seperates from the enclosure for access hardware mounting in the shop while wiring is pulled to the enclosure at the job site. Once configured, the backplate can be remounted for final ties and checkout.

## **Features**

- Removable back plate simplifies job installation
- Engineered backplate pattern minimizes installation time
- Power boards mount on snap-in stand offs
- Access boards mount on supplied threaded metal standoffs

## **Mechanical refinements**

- Large enclosure depth to accommodate battery

- 19 Gauge steel with textured black finish
- Board mounting hardware provided
- Lock and tamper switch standard

### Reliability and Safety

- Lifetime Warranty
- RoHS Compliant

### Agency Listings

- UL 294 / UL 603
- UL 1076
- ULC S318, 319,
- FCC Part 15, Subpart B
- CSA C22.2 107.1
- CSA 22.2 #60950
- 



### [Product Warranty](#)

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

|                        |  |                    |                    |                     |                    |
|------------------------|--|--------------------|--------------------|---------------------|--------------------|
| Mercury Standard Power |  |                    |                    |                     |                    |
| Single Voltage         |  | Datasheet          |                    | Install Manual      | CAD F              |
| FPO75-D8PE1M           |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75-D8PE2M           |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75-D8PE4M           |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75-D8PE6M           |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-D8PE4M1         |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-D8PE6M1         |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-D8PE8M          |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-2D8PE8M1        |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-2D8PE8M2        |  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| Dual Voltage           |  | Datasheet          |                    | Install Manual      | CAD F              |

|                        |                    |                    |                     |                    |
|------------------------|--------------------|--------------------|---------------------|--------------------|
| FPO75-B100C4PE1M       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75-B100C4D8PE2M     | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B100C8D8PE6M    | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B100C8D8PE4M1   | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2C82D8PE6M  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO75/150-C4C82D8PE8M  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2C82D8PE8M  | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2C82D8PE8M2 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| Mercury Managed Power  |                    |                    |                     |                    |
| Dual Voltage           |                    |                    |                     |                    |

[Datasheet](#)

[Install Manual](#)

[CAD F](#)

|                           |                    |                    |                     |                    |
|---------------------------|--------------------|--------------------|---------------------|--------------------|
| FPO75-B100M8NL4E4M        | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B100D8PM8NL4E4M    | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150-B100D8PM8NL4E6M    | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2D8P2M8NL4E4M1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2D8P2M8NL4E6M1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2D8P2M8NL4E8M1 | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| FPO150/250-2C82D8PE8M2    | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| Mercury Enclosures        |                    |                    |                     |                    |
| E1M                       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E2M                       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E4M                       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E4M1                      | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E6M                       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E6M1                      | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E8M                       | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E8M1                      | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |
| E8M2                      | <a href="#">DS</a> | <a href="#">IM</a> | <a href="#">CAD</a> | <a href="#">AG</a> |

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

[Troubleshooting Guide](#)

[Factory Contact](#)

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[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](#)

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Application Notes

[AN26\\_Distribution options](#)

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