

# Micro Power Distribution Box (μPDB) Sealed Modules



MicroPDB (μPDB) Sealed Modules, offered in standard and customizable versions, are compact automotive power distribution boxes that provide a junction point for power switching and circuit protection for vehicles or subsystems within wiring architectures

## Features and Advantages

### Connectorized system

Attaches simply and inexpensively to the vehicle. Reduces the amount of cut leads needed compared to traditional auxiliary boxes. Eliminates hardwiring and the accompanying costs and potential errors

### Standard connector configurations

Provides design flexibility to meet an application's specific needs

### Modular custom design

Delivers superior cost savings and performance by providing only those features required by the application. Uses only the specific components and materials needed for the application

MX150 Receptacle (Left); μPDB Sealed Module (Right)



### Fully sealed with an IP6k7 NEMA rating

Can be mounted in multiple locations within the vehicle. Delivers reliability. Is fully submersible, withstands wet environments

### Small footprint

Facilitates design for space-constrained applications with weight limits. Provides significant space and weight savings

μPDB Sealed Module Mated With MX150 Receptacle



- Current rating: 30.0A
- Switching voltage: 12V
- Operating temp: -40 to +110°C
- Features:
  - 60.0A relay
  - 40.0A LP-J case fuse
  - PCB: 4 oz Cu, dual layer
  - FR4 170°C TG

## Standard Modules



1 Relay, Supporting Electronics  
200316-1101  
(Application Example: Cooling Fan)

- Current rating: 48.0A
- Operating temp: -40 to +110°C
- Switching voltage: 12V
- Features:
  - 60.0A relay
  - PCB: 4 oz Cu, dual layer
  - FR4 170°C TG

1 Relay, 1 Slow-Blow Fuse, Supporting Electronics  
200316-1102  
(Application Example: All-Wheel Drive Module)



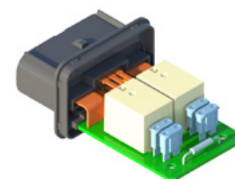
- Current rating:
  - 20.0A starting current; 7.5A steady-state current (each glow-wire plug)
  - Total 4 glow-wire plugs
- Operating Temp: -40 to +110°C
- Switching Voltage: 12V
- Coil Voltage: 12V
- Features:
  - 2×40.0A Relay
  - Micro2 Fuses (4×25.0A)
  - PCB: 4oz Cu, dual-layer



1 Relay, 3 Fast-Blow Fuses, Supporting Electronics  
200316-1103  
Application Example: Urea Module

- Current rating:
  - Load 1: 7.5A (fuse 1)
  - Load 2: 6.0A (fuse 2)
  - Load 3: 7.5A (fuse 3)
- Operating temp: -40 to +110°C
- Switching voltage: 12V
- Features:
  - 30.0A relay
  - Micro2 fuses (1×20.0A and 2×15.0A)
  - PCB: 4 oz Cu, dual layer
  - FR4 170°C TG

Cold-Start Module, 12V  
200316-1121



- Current rating:
  - 12.0A starting current; 4.0A steady state current (each glow plug)
- Total 4 glow plugs
- Operating Temp: -40 to +110°C
- Storage Temp: -40 to +125°C
- Switching Voltage: 24V
- Coil Voltage: 12/24V
- Features:
  - 2×40.0A Relay
  - Micro2 Fuses (4×15.0A)
  - PCB 4oz Cu, dual layer
  - FR4 170°C TG

Cold-Start Module, 24V  
200316-1122

# Micro Power Distribution Box (μPDB) Sealed Modules



## Markets and Applications

### Automotive

Vehicles  
Subsystems within wiring architectures  
Specialty vehicles  
Police cars  
Ambulances

### Commercial Vehicle

Overland trucking  
Off-road  
Motorcycles  
Recreational vehicles (RVs)  
All-terrain vehicles (ATVs)  
Snowmobiles  
Boats  
Personal watercraft (PWC)

## Ordering Information

Series No.	Component	Product Attribute
<a href="#">200316-1101</a>	Micro Power Distribution Box	1 Relay, Supporting Electronics
<a href="#">200316-1102</a>		1 Relay, 1 Slow-Blow Fuse, Supporting Electronics
<a href="#">200316-1103</a>		1 Relay, 3 Fast-Blow Fuses, Supporting Electronics
<a href="#">200316-1121</a>		Cold-Start Module, 12V
<a href="#">200316-1122</a>		Cold-Start Module, 24V

Custom Product	Description
<a href="#">Contact Molex</a>	μPDB Custom Sealed Modules

[www.molex.com/link/micropdb.html](http://www.molex.com/link/micropdb.html)

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