



# EXCEL | MATE MSD

**Manual Service Disconnect** 



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# Amphenol PCD Manual Service Disconnect

Excel|Mate MSD is a safe and a reliable solution for HEV servicing.

Equipped with a two-stage lever to open the HVIL circuit prior to the separation of HV contacts, it is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit. All HV conductive contact surfaces on the receptacle assembly are finger-touch safe.

Available in a scalable design with a variety of fuse ratings.



# KEY FEATURES

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

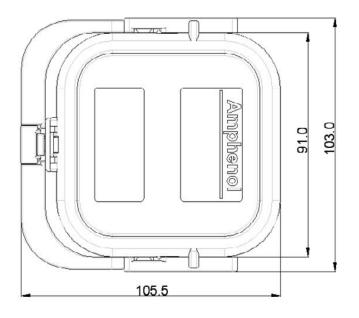
Receptacle can be front or rear mounted

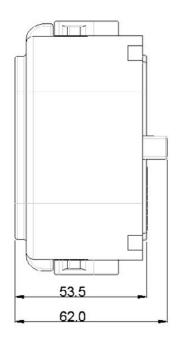
#### APPLICATION

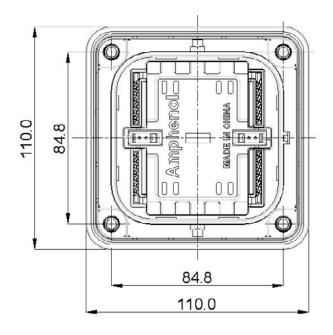
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

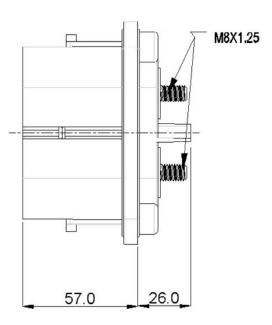
MECHANICAL			
Mating cycles	≥ 50 cycles		
ELEC	CTRICAL		
Fuse specification	up to 630A		
With fuse:			
Rated current	Current is approximately 1/3 the fuse rating (230A Max)		
Rated voltage	600V DC		
With shunt:			
Rated current	230A Max		
Rated voltage	1000V DC Max		
ENVIRONMENTAL			
Protection degree	IP67, IP6K9K (mated)		
Ambient temperature	-40°C to 70°C		
Storage temperature	-40°C to 85°C		
Operating temperature	-40°C to 125°C		
STANDARDS			
USCAR-2			
USCAR-37			
LV-215			
RoHS			

# PRODUCT DIMENSIONS

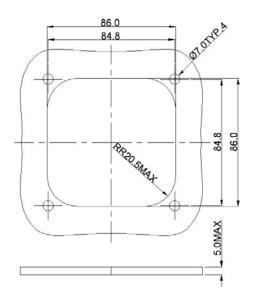






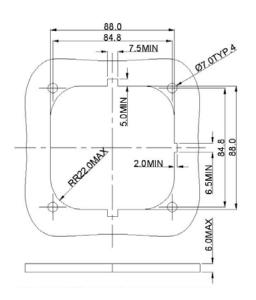


# FRONT MOUNTED





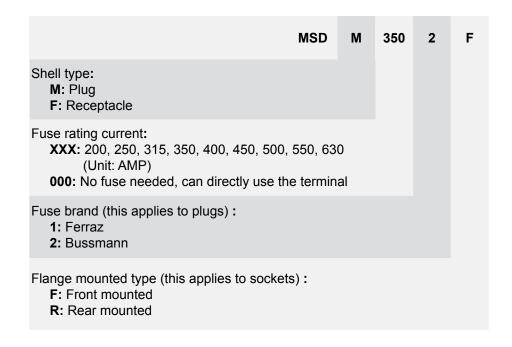
# **REAR MOUNTED**





DUST CAP AVAILABLE P/N: C270006810







MSD V is an upgraded version of the standard MSD.

It provides a rated voltage of 800V and a plug with integrated fuse. The other parameters remain unchanged.

# **KEY FEATURES**

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

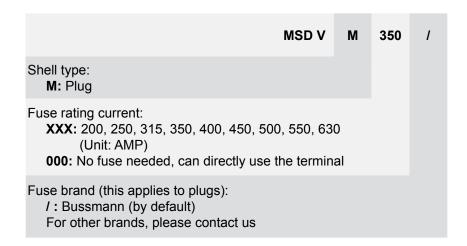
Various fuse ratings

Receptacle can be front or rear mounted

#### **APPLICATION**

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL		
Mating cycles	≥ 50 cycles	
ELECTRICAL		
Fuse specification	up to 630A	
With fuse:		
Rated current	Current is approximately 1/3 the fuse rating (230A Max)	
Rated voltage	800V DC	
With shunt:		
Rated current	230A Max	
Rated voltage	1000V DC Max	
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
STANDARDS		
USCAR-2		
USCAR-37		
LV-215		
RoHS		



# EXCEL|MATE MSD XL - TECHNICAL CHARACTERISTICS



# **APPLICATION**

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL		
Mating cycles	≥ 500 cycles	
ELECTRICAL		
Fuse specification	up to 630A	
With fuse:		
Rated current	300A Max	
Rated voltage	1000V DC	
With shunt:		
Rated current	300A	
Rated voltage	1500V DC Max	

# KEY FEATURES

1 x integrated internal HVIL

Unique cooling structure

High current contacts with Amphenol Radsok technology

No tools required to unmate

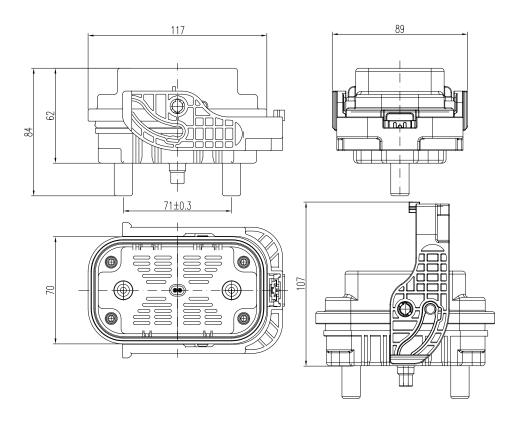
Various fuse ratings

Receptacle can be front or rear mounted

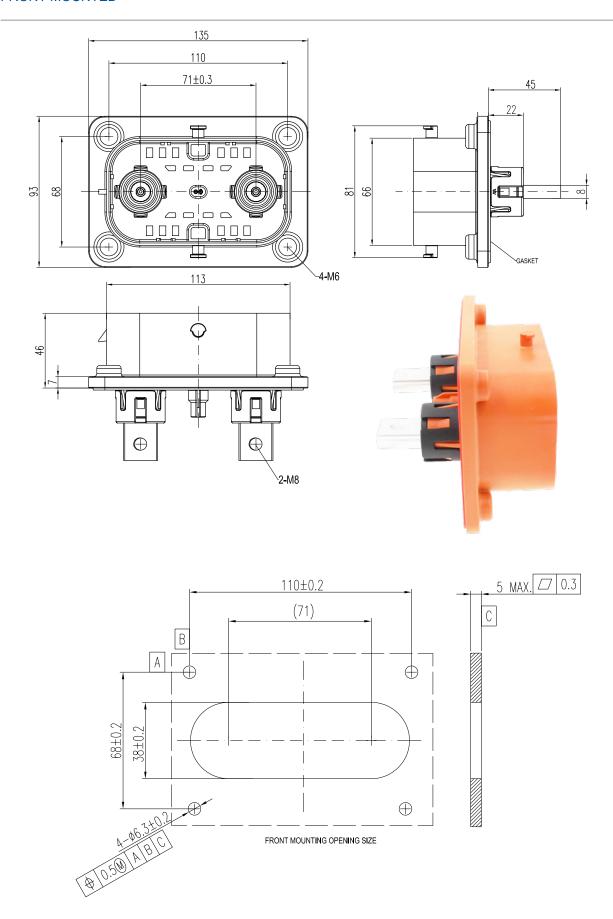
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	

# USCAR-2 USCAR-37 LV-215 RoHS

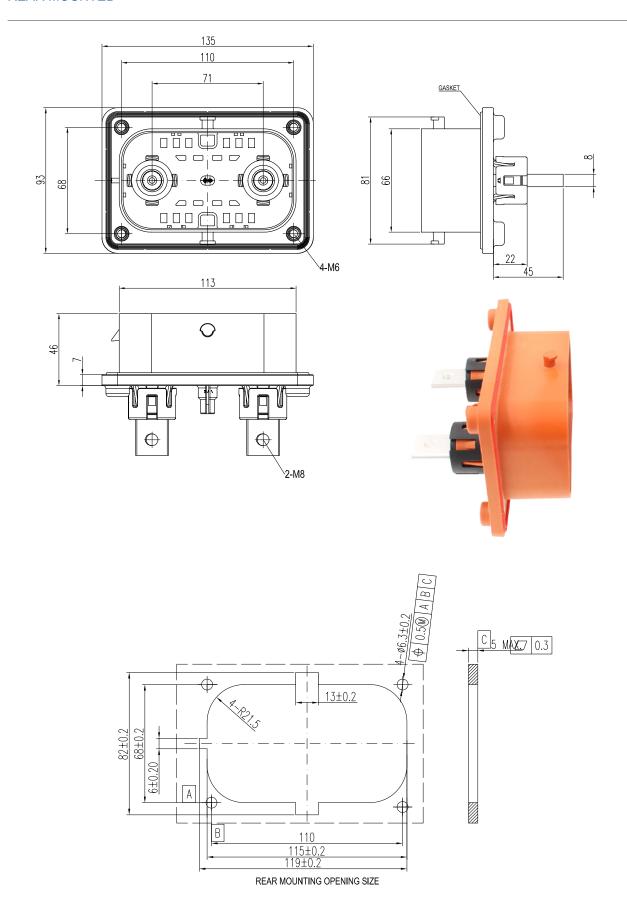
# PRODUCT DIMENSIONS

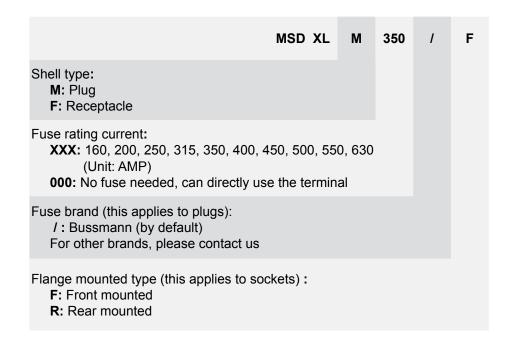


# FRONT MOUNTED



# **REAR MOUNTED**





# EXCELIMATE MINI MSD



# Amphenol PCD MINI Manual Service Disconnect

Mini MSD has been developped from the standard MSD.Smaller in size and lower in cost, it offers a more compact solution.

Available in a scalable design with a variety of fuse ratings.



# **KEY FEATURES**

A two-stage lever provides an HVIL time delay

1 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

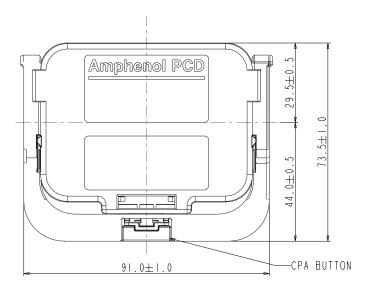
Receptacle can be front or rear mounted

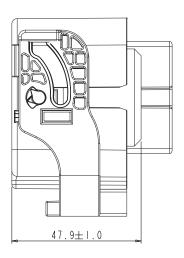
# **APPLICATION**

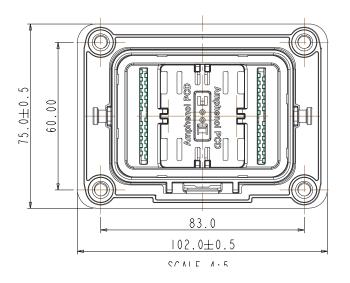
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

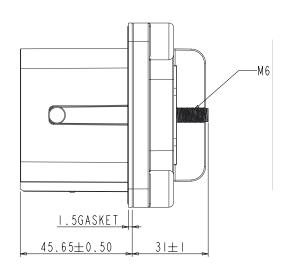
circuit.		
MECHANICAL		
Mating cycles	≥ 50 cycles	
ELECTRICAL		
Fuse specification	up to 400A	
With fuse:		
Rated current	Current is approximately 1/3 the fuse rating (170A Max)	
Rated voltage	600V to 700V DC	
With shunt:		
Rated current	170A Max	
Rated voltage	1500V DC Max	
ENVIRONMENTAL		
Protection degree	IP67, IP6K9K (mated)	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 85°C	
Operating temperature	-40°C to 125°C	
STANDARDS		
USCAR-2		
USCAR-37		
LV-215		
RoHS		

# PRODUCT DIMENSIONS

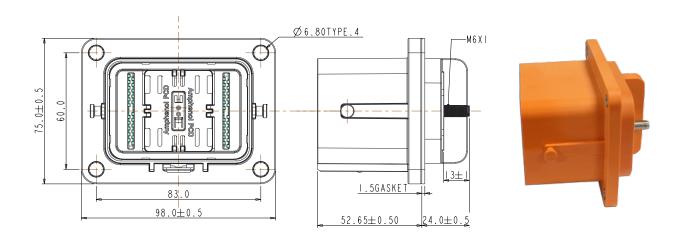




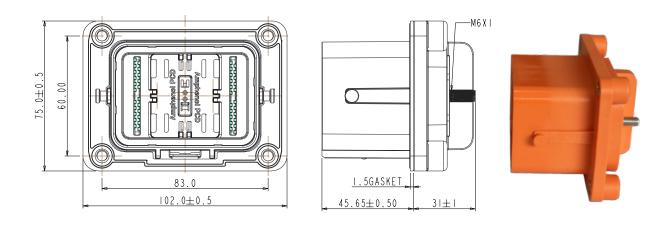




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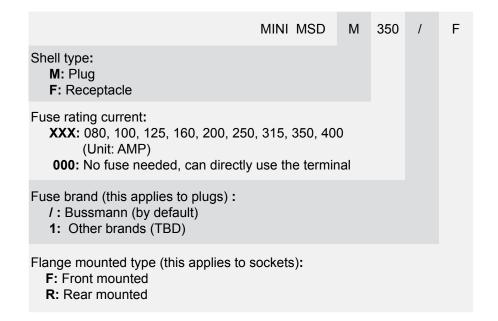


# **REAR MOUNTED**



DUST CAP AVAILABLE: P/N: C270006809







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