AMPHENOL PCD SHENZHEN

EXCEL | MATE MSD

Manual Service Disconnect

www.amphenolpcd.com.cn

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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

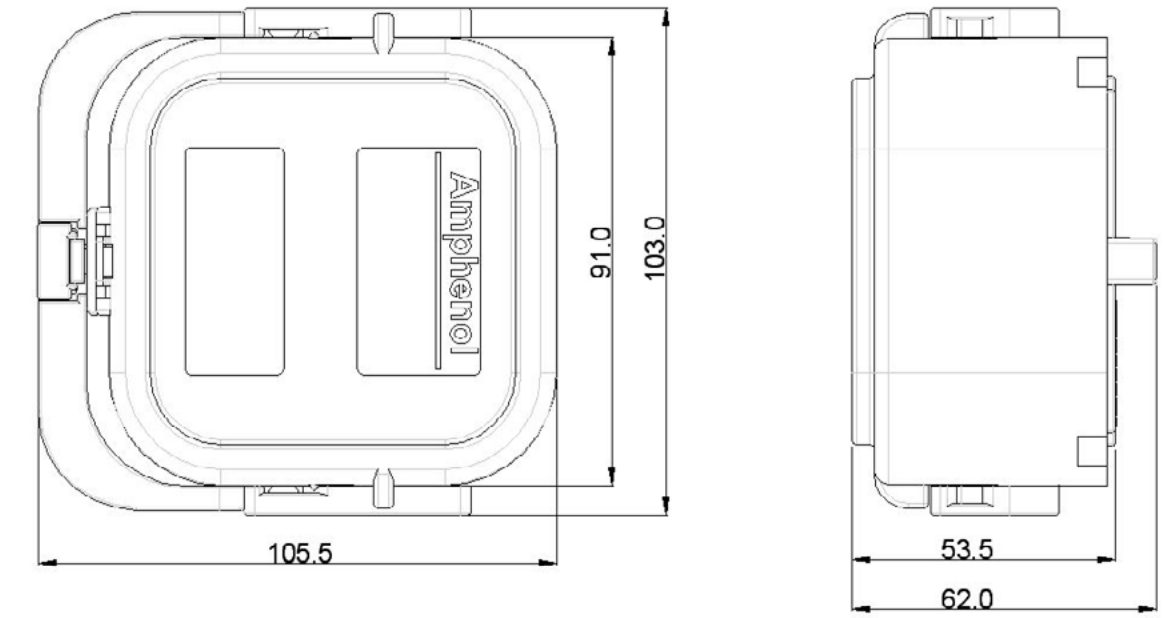
No tools required to unmate

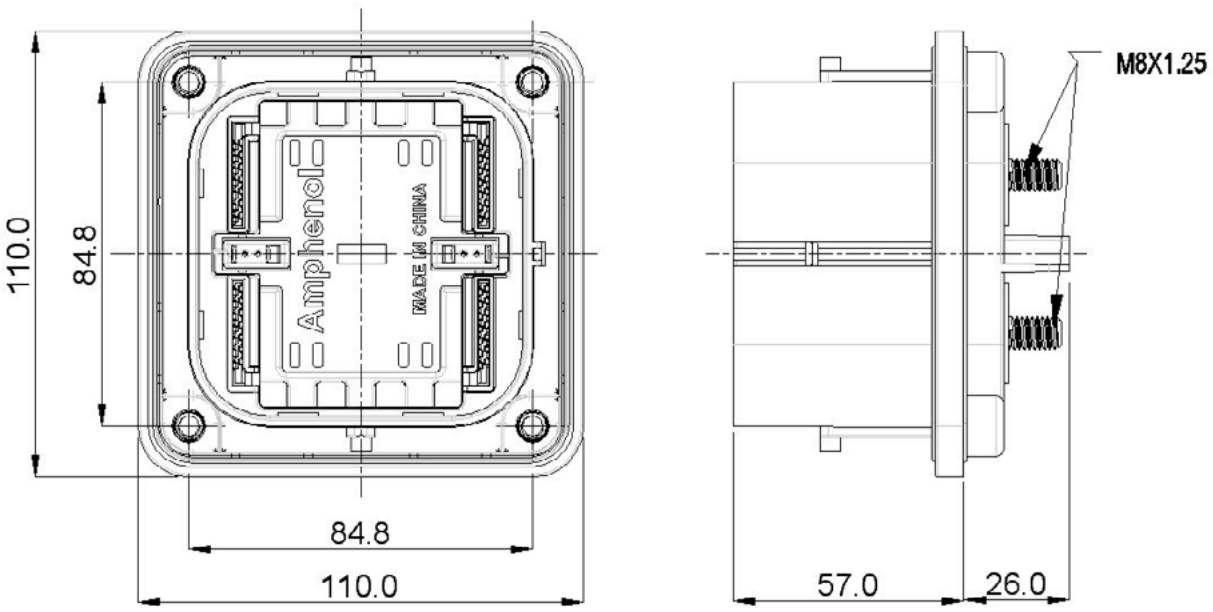
Various fuse ratings

Receptacle can be front or rear mounted

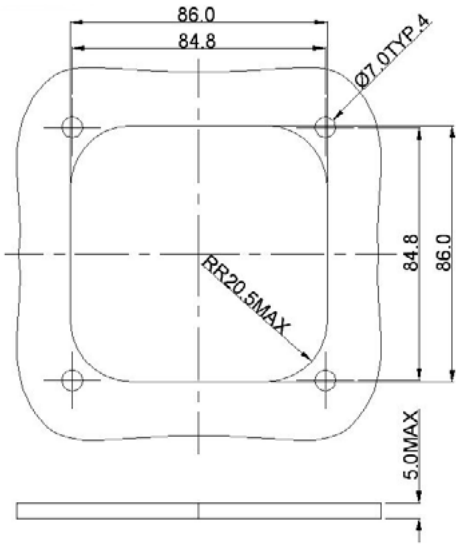
APPLICATION	
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.	
MECHANICAL	
Mating cycles	≥ 50 cycles
ELECTRICAL	
Fuse specification	up to 630A
With fuse:	
Rated current	Current is approximately 1/3 the fuse rating (230A Max)
Rated 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

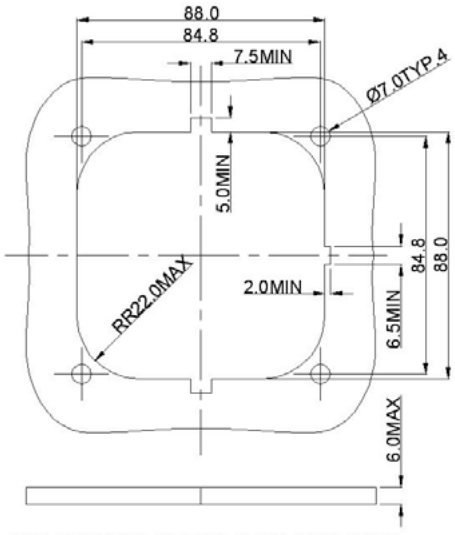




FRONT MOUNTED



REAR MOUNTED



DUST CAP AVAILABLE
P/N: C270006810

HOW TO ORDER - EXCEL|MATE MSD

MSD	M	350	2	F
Shell type: **M:** Plug **F:** Receptacle				
Fuse rating current: **XXX:** 200, 250, 315, 350, 400, 450, 500, 550, 630 (Unit: AMP) **000:** No fuse needed, can directly use the terminal				
Fuse brand (this applies to plugs) : **1:** Ferraz **2:** Bussmann				
Flange mounted type (this applies to sockets) : **F:** Front mounted **R:** Rear mounted				

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	

HOW TO ORDER - EXCEL|MATE MSD V

MSD V	M	350	/
Shell type: **M:** Plug			
Fuse rating current: **XXX:** 200, 250, 315, 350, 400, 450, 500, 550, 630 (Unit: AMP) **000:** No fuse needed, can directly use the terminal			
Fuse brand (this applies to plugs): **/ :** Bussmann (by default) For other brands, please contact us			

KEY FEATURES

1 x integrated internal HVIL

Unique cooling structure

High current contacts with Amphenol Radsok technology

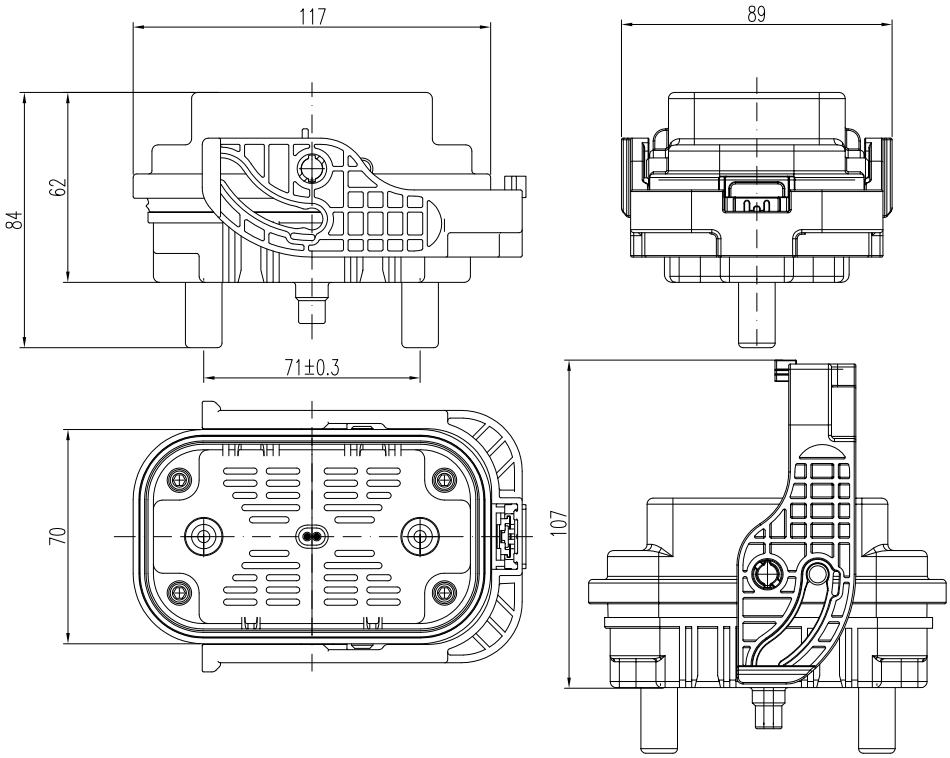
No tools required to unmate

Various fuse ratings

Receptacle can be front or rear mounted

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
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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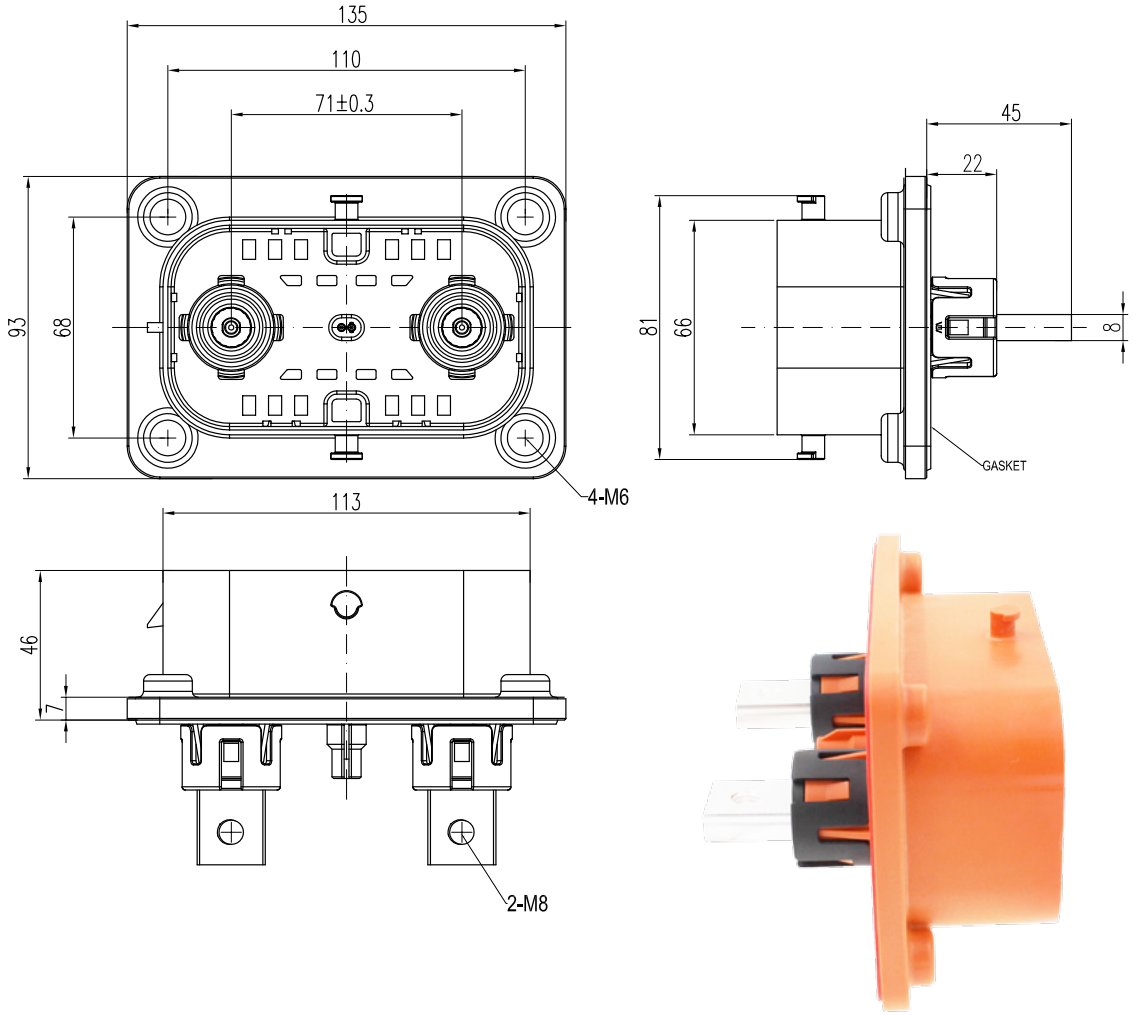

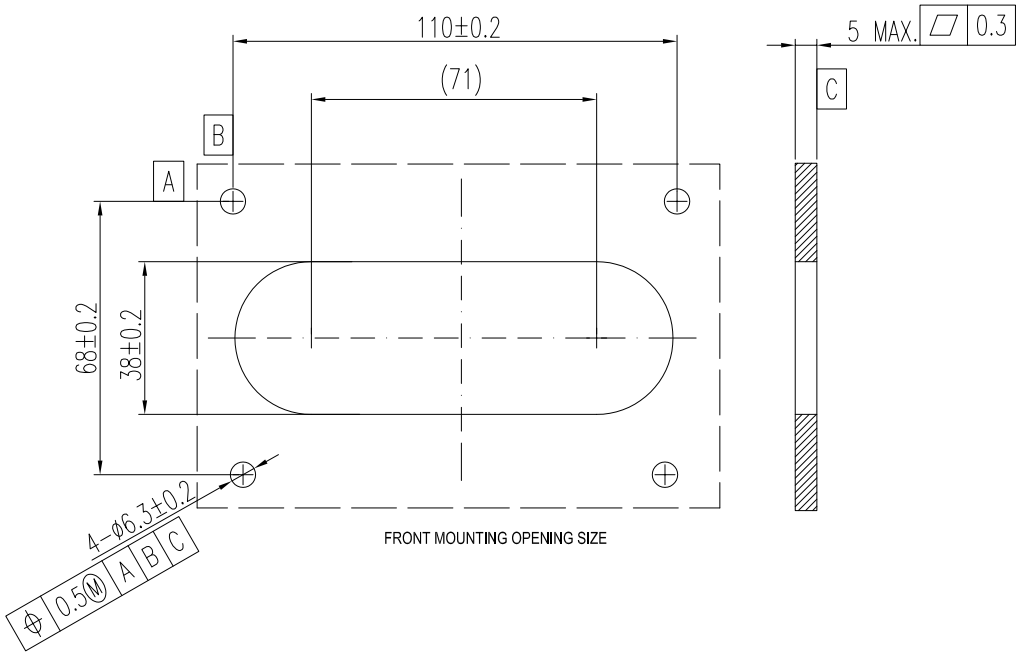

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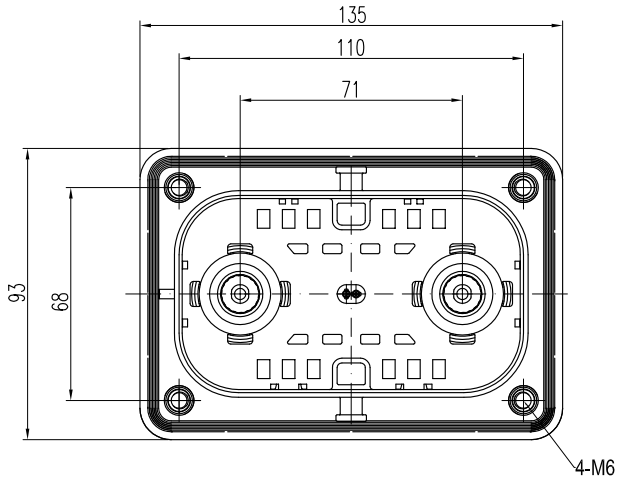
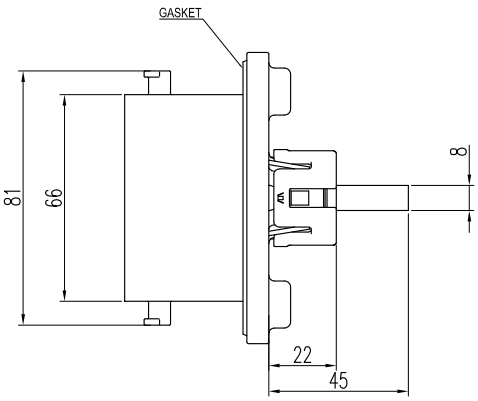
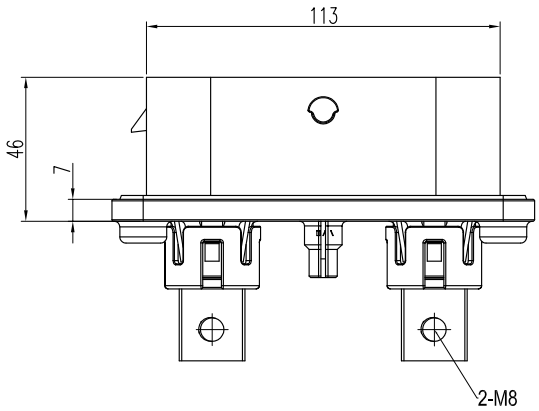
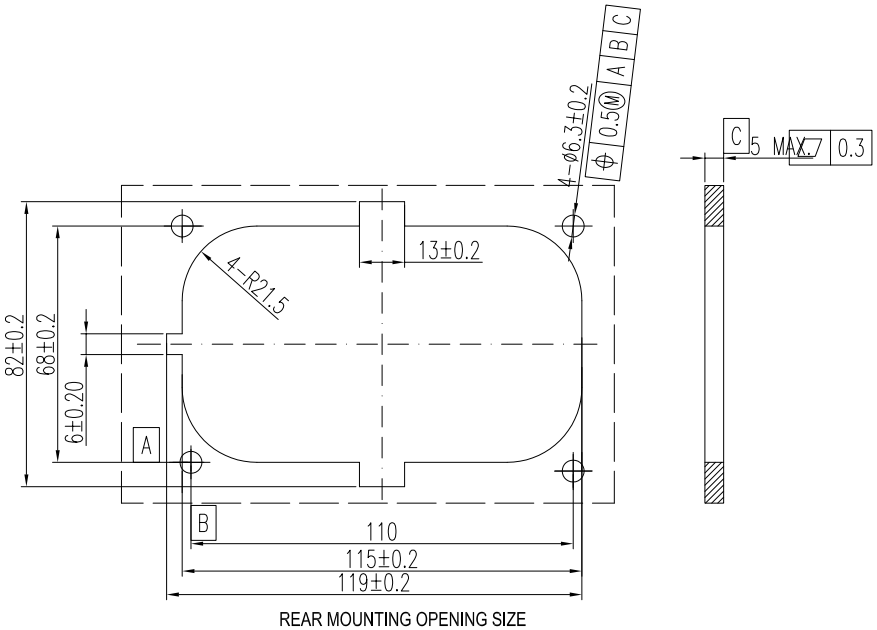








REAR MOUNTING OPENING SIZE

HOW TO ORDER - EXCEL|MATE MSD XL

MSD XL	M	350	/	F

Shell type:
M: Plug
F: Receptacle

Fuse rating current:
XXX: 160, 200, 250, 315, 350, 400, 450, 500, 550, 630
(Unit: AMP)
000: No fuse needed, can directly use the terminal

Fuse brand (this applies to plugs):
/ : Bussmann (by default)
For other brands, please contact us

Flange mounted type (this applies to sockets) **:**
F: Front mounted
R: Rear mounted

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

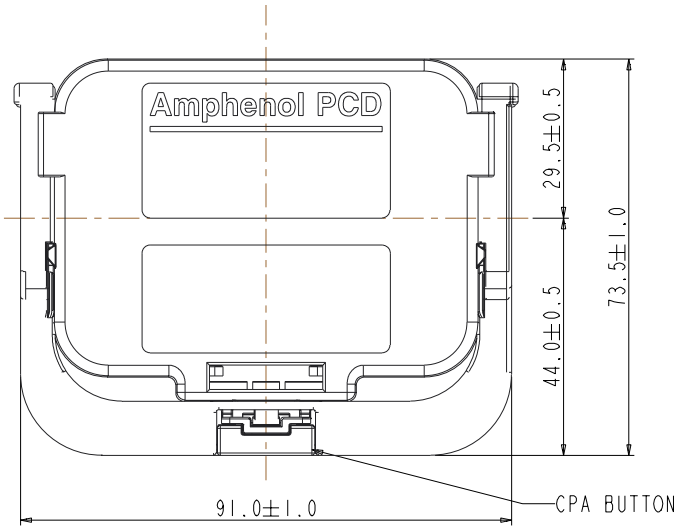
No tools required to unmate

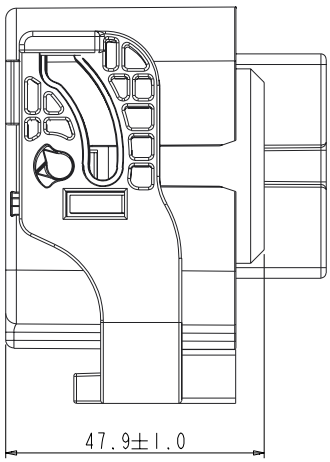
Various fuse ratings

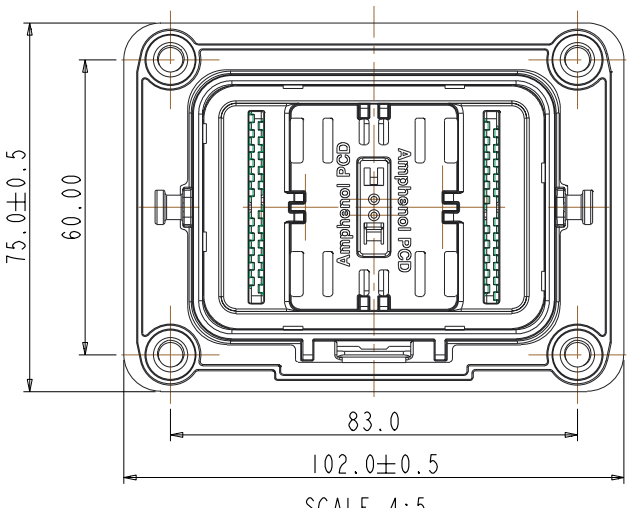
Receptacle can be front or rear mounted

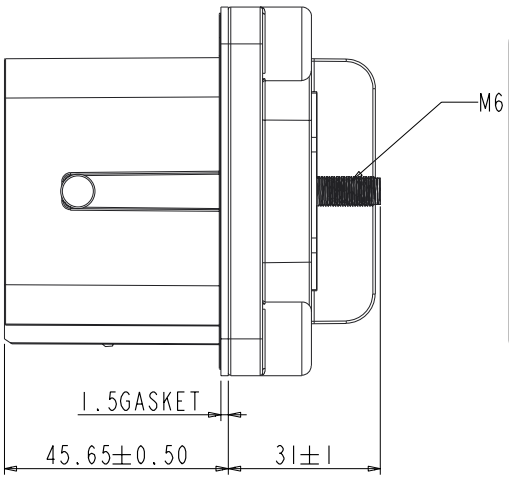
APPLICATION	
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.	
MECHANICAL	
Mating cycles	≥ 50 cycles
ELECTRICAL	
Fuse specification	up to 400A
With fuse:	
Rated current	Current is approximately 1/3 the fuse rating (170A Max)
Rated 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

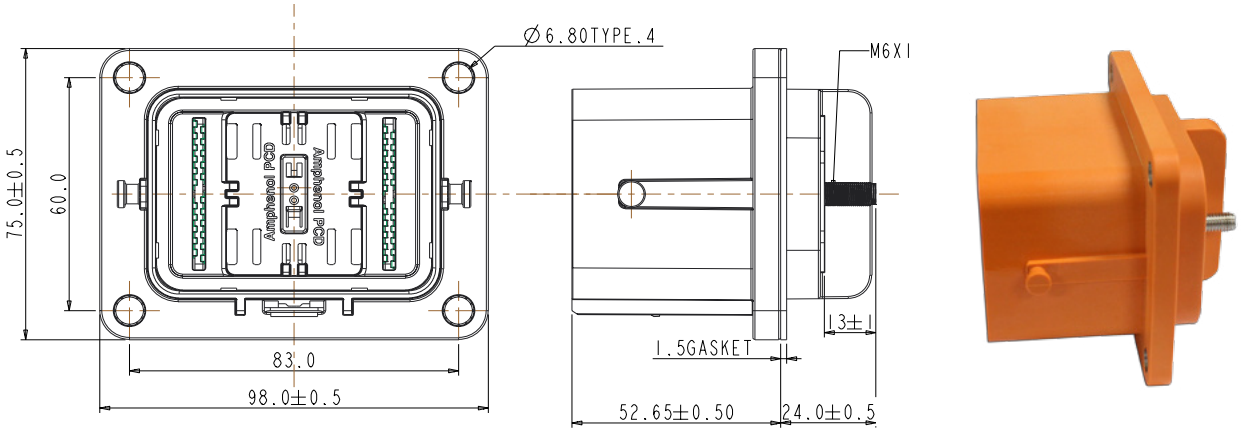








FRONT MOUNTED



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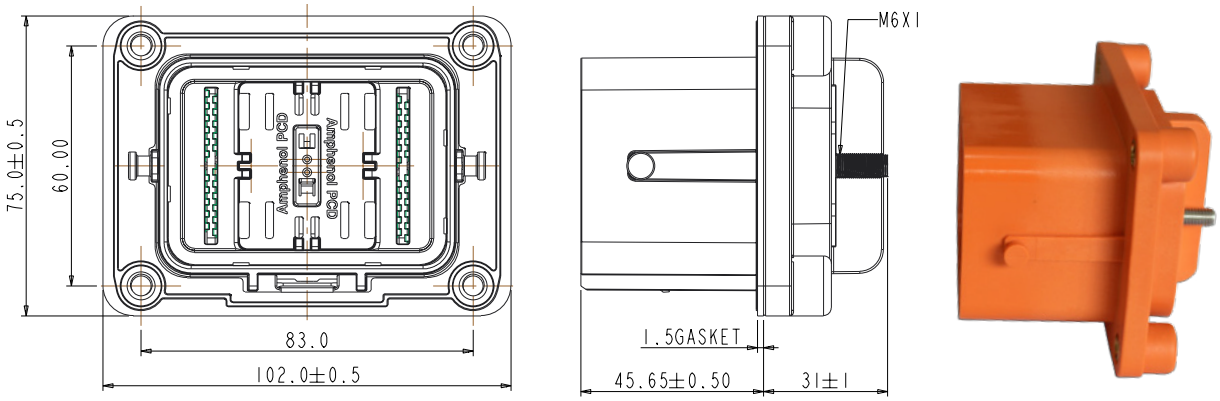

DUST CAP AVAILABLE:
P/N: C270006809

HOW TO ORDER - EXCEL|MATE MINI MSD

MINI MSD	M	350	/	F

Shell type:
M: Plug
F: Receptacle

Fuse rating current:
XXX: 080, 100, 125, 160, 200, 250, 315, 350, 400
(Unit: AMP)
000: No fuse needed, can directly use the terminal

Fuse brand (this applies to plugs) :
/ : Bussmann (by default)
1: Other brands (TBD)

Flange mounted type (this applies to sockets):
F: Front mounted
R: Rear mounted

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Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.

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