



AMPHENOL PCD SHENZHEN



EXCEL | MATE MSD

Manual Service Disconnect

www.amphenolpcd.com.cn

INDUSTRIAL@AMPHENOL
TRUSTED GLOBALLY

EXCEL MATE MSD	2
EXCEL MATE MSD - TECHNICAL CHARACTERISTICS	3
PRODUCT DIMENSIONS	4
HOW TO ORDER EXCEL MATE MSD	6
EXCEL MATE MSD V - TECHNICAL CHARACTERISTICS	7
HOW TO ORDER EXCEL MATE MSD V	8
EXCEL MATE MSD XL - TECHNICAL CHARACTERISTICS	9
PRODUCT DIMENSIONS	10
HOW TO ORDER EXCEL MATE MSD XL	13
EXCEL MATE MINI MSD	14
EXCEL MATE MINI MSD - TECHNICAL CHARACTERISTICS	15
PRODUCT DIMENSIONS	16
HOW TO ORDER EXCEL MATE MINI MSD	18



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.

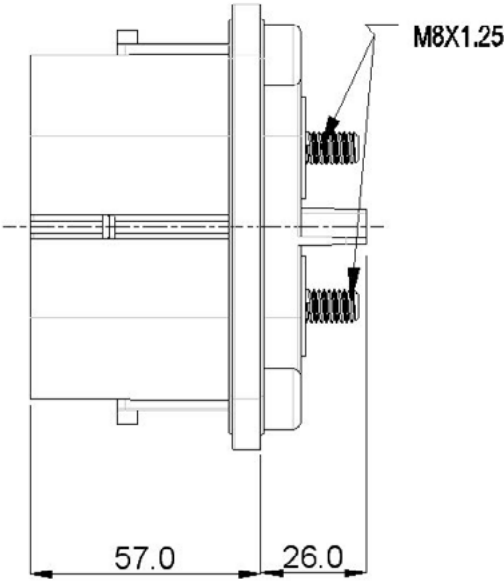
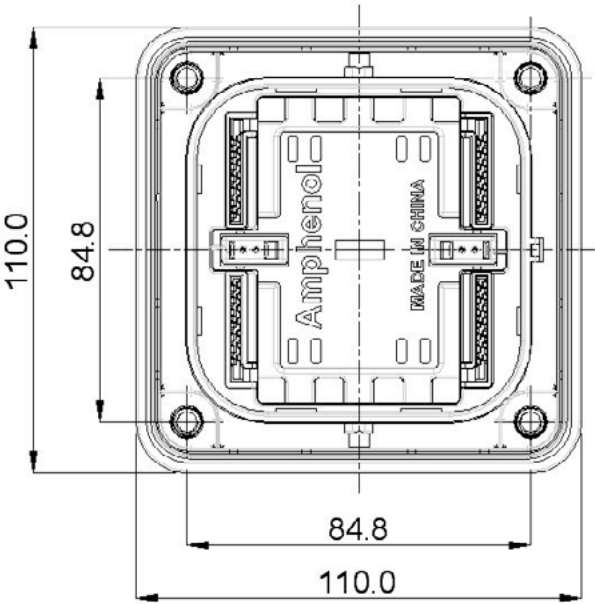
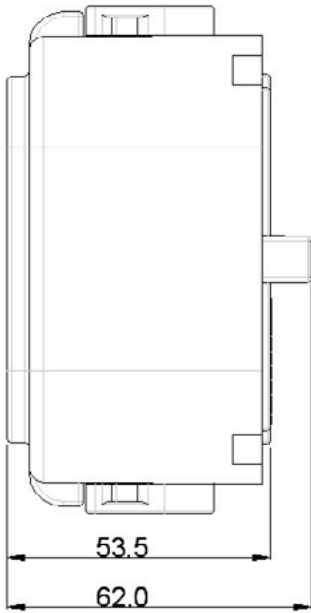
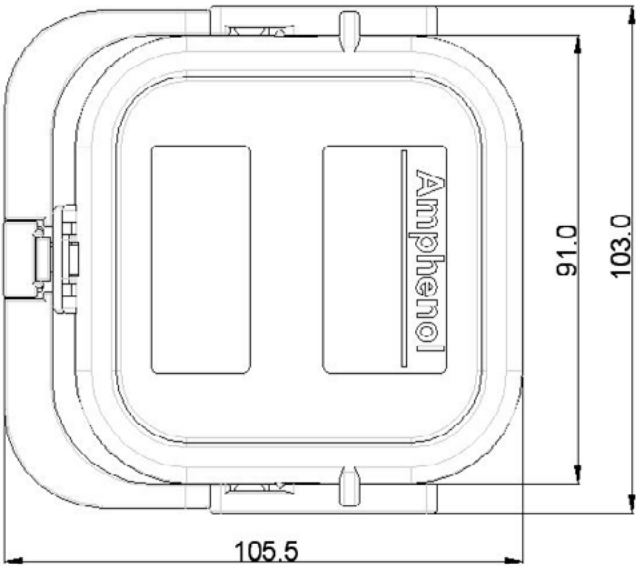


KEY FEATURES

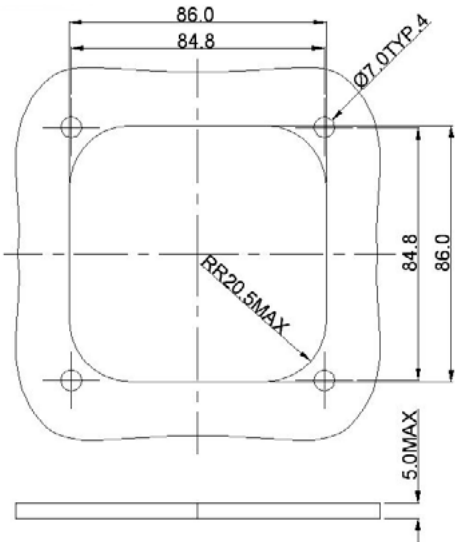
- A two-stage lever provides an HVIL time delay
- 2 x integrated internal HVIL
- Unique cooling structure
- Dual-channel design lowers temperature rise
- No tools required to unmate
- Various fuse ratings
- Receptacle can be front or rear mounted

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	

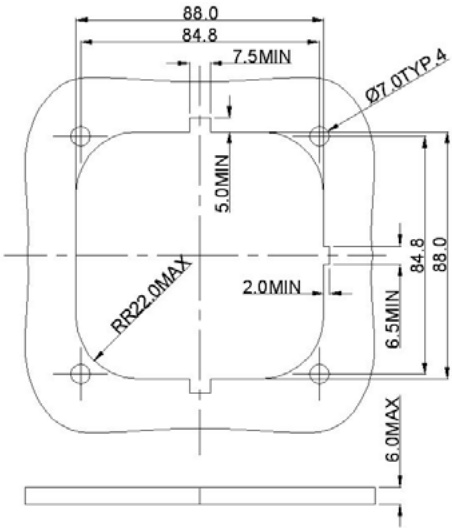
PRODUCT DIMENSIONS



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					

EXCEL|MATE MSD V - TECHNICAL CHARACTERISTICS



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				

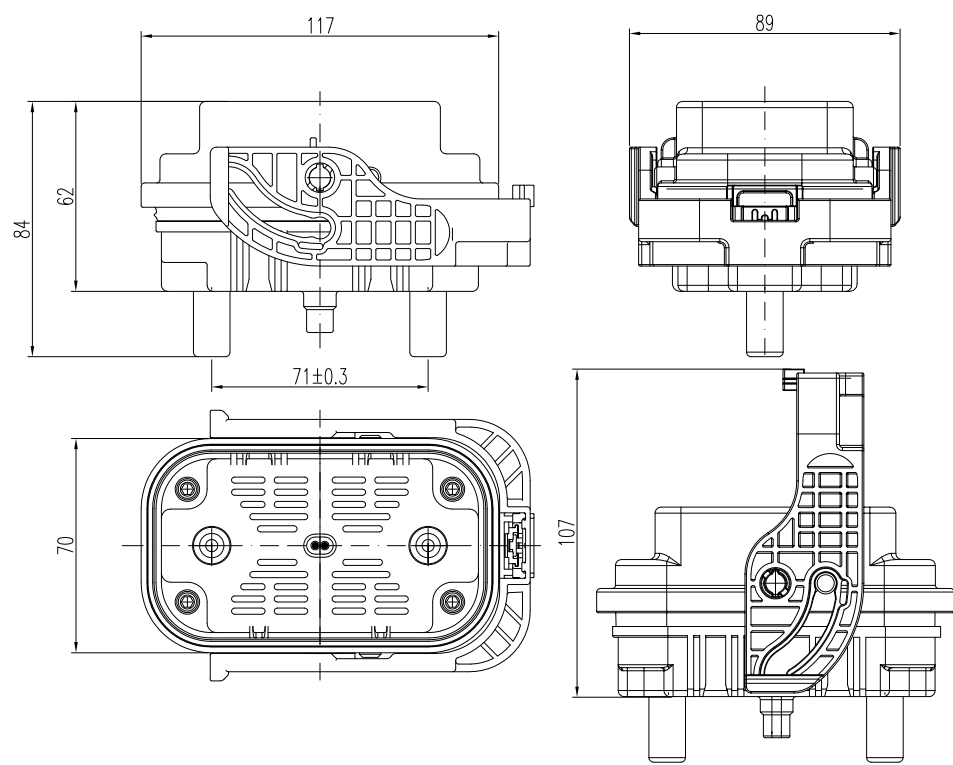


KEY FEATURES

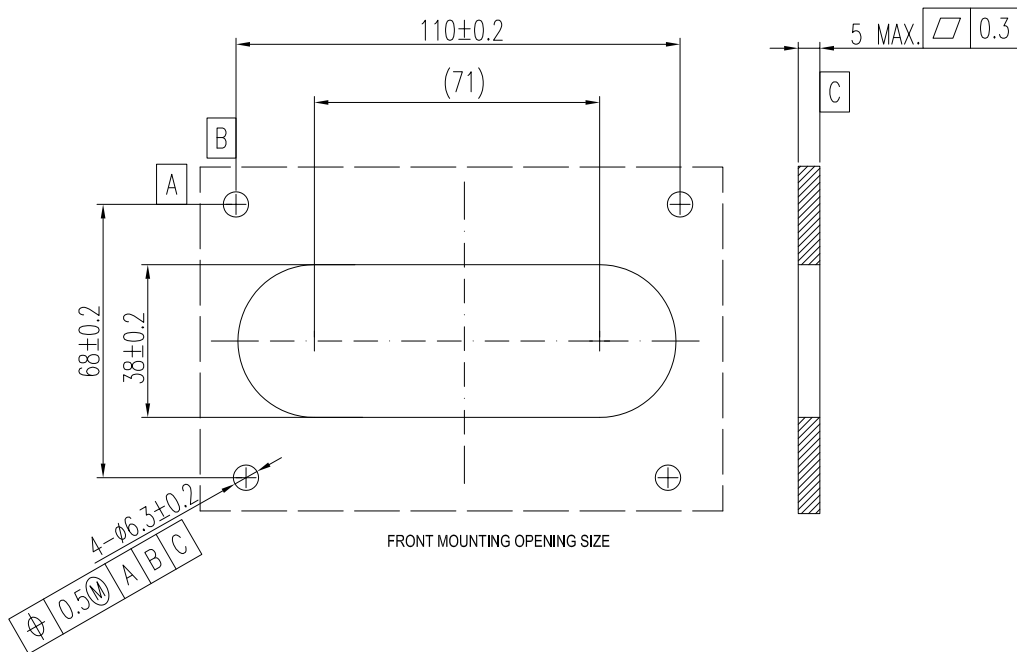
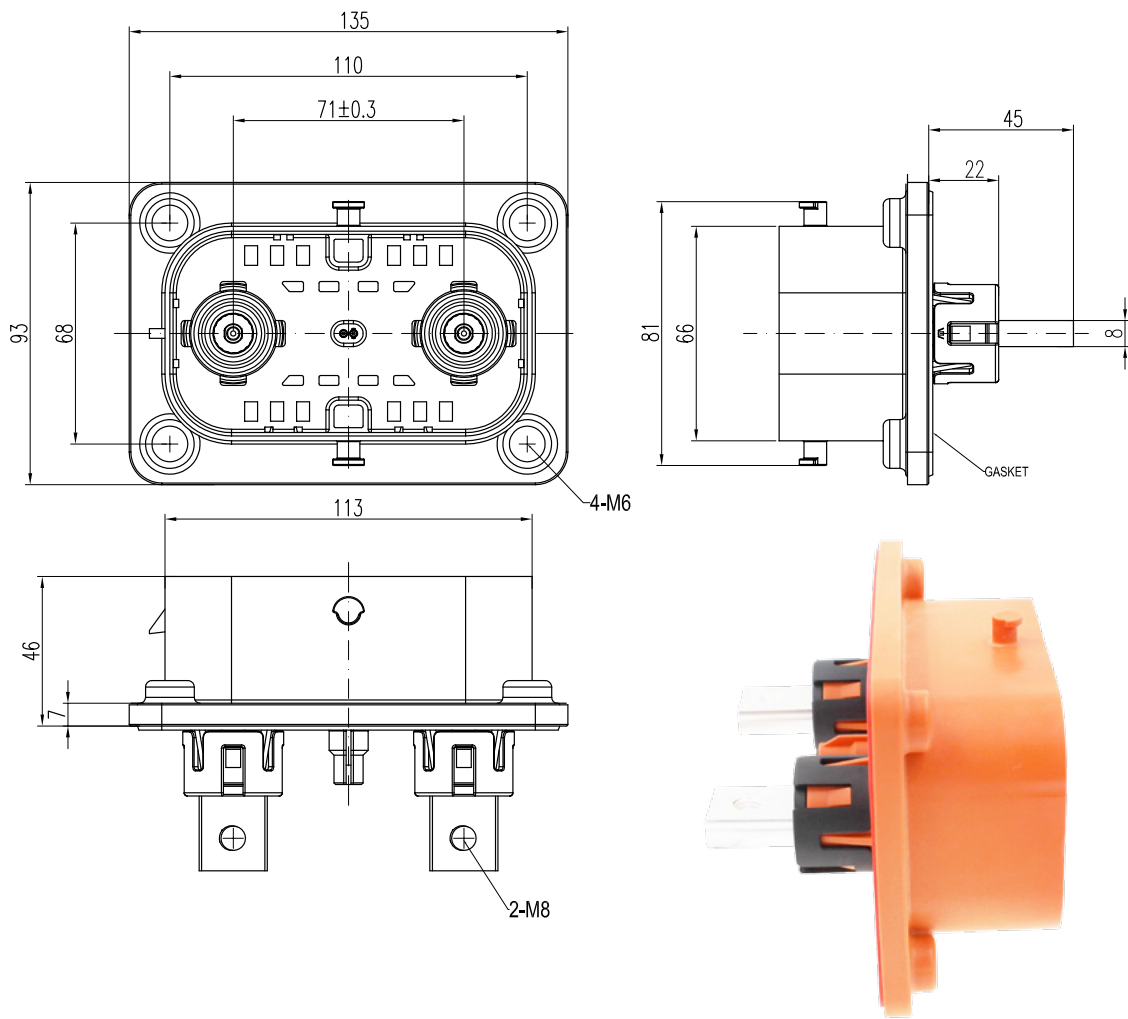
- 1 x integrated internal HVIL
- Unique cooling structure
- High current contacts with Amphenol Radsok technology
- No tools required to unmate
- Various fuse ratings
- Receptacle can be front or rear mounted

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	

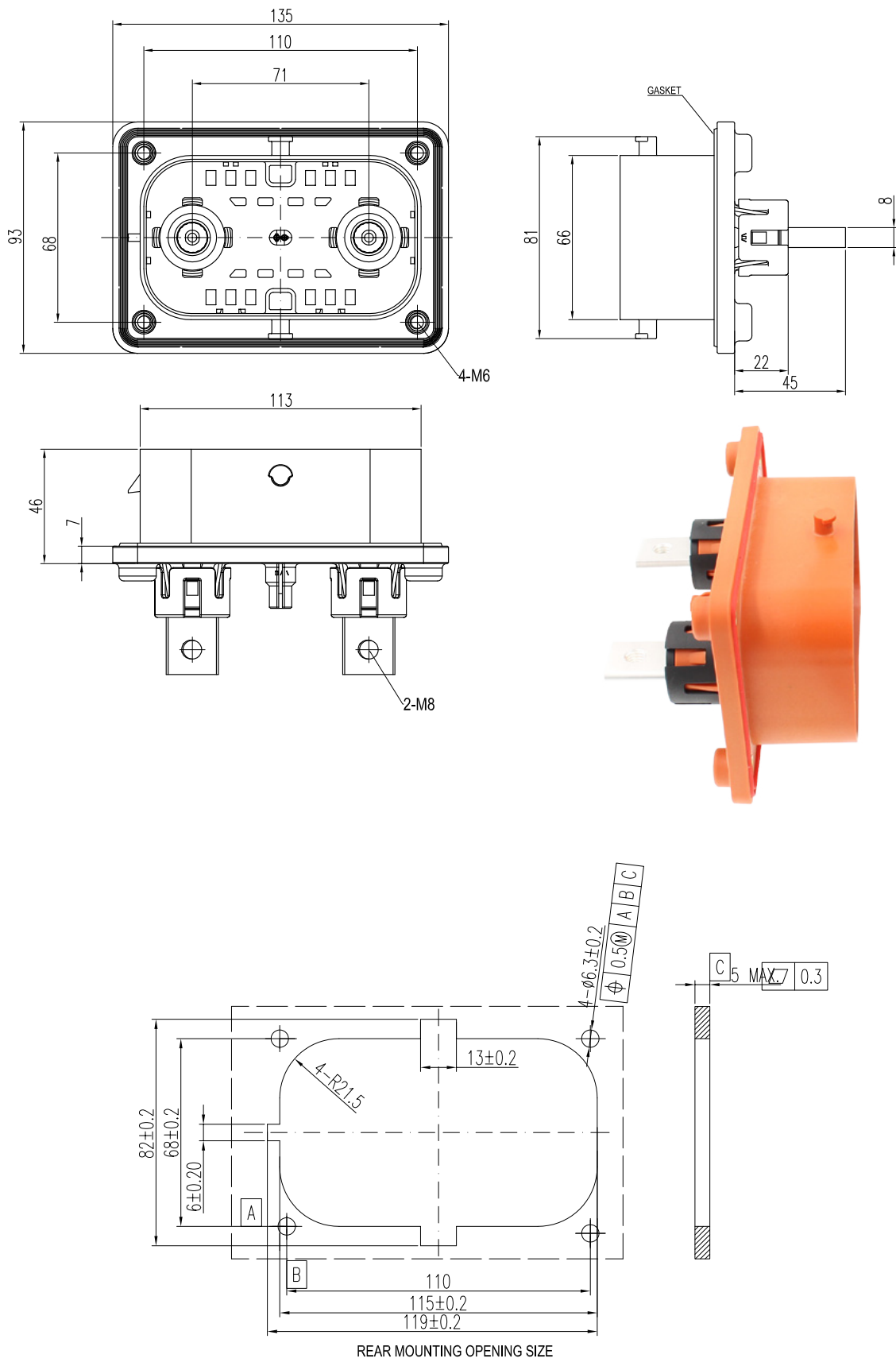
PRODUCT DIMENSIONS



FRONT MOUNTED



REAR MOUNTED



	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 developed 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.

EXCEL|MATE MINI MSD - TECHNICAL CHARACTERISTICS



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

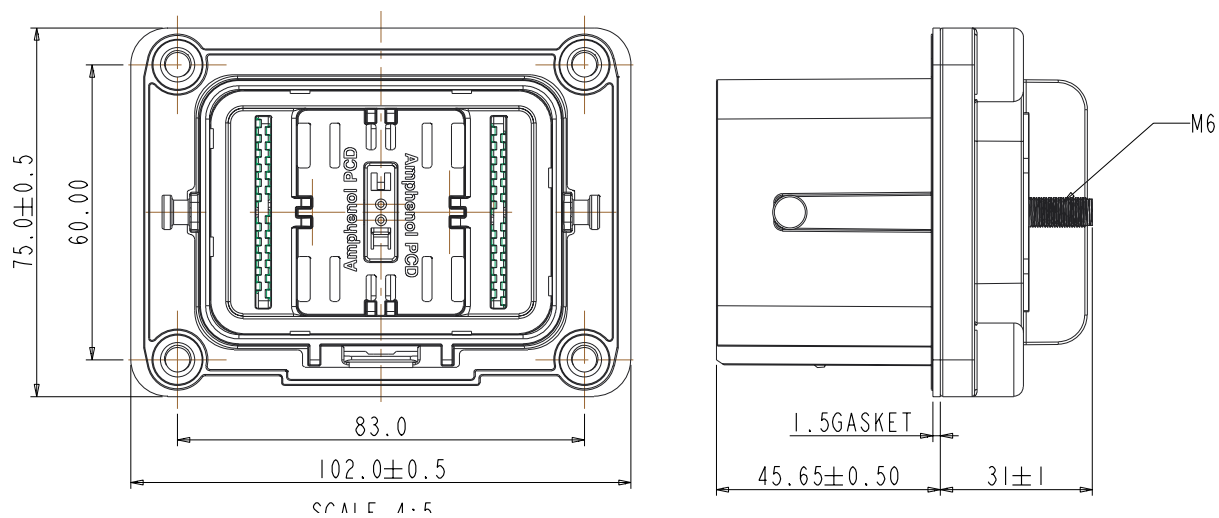
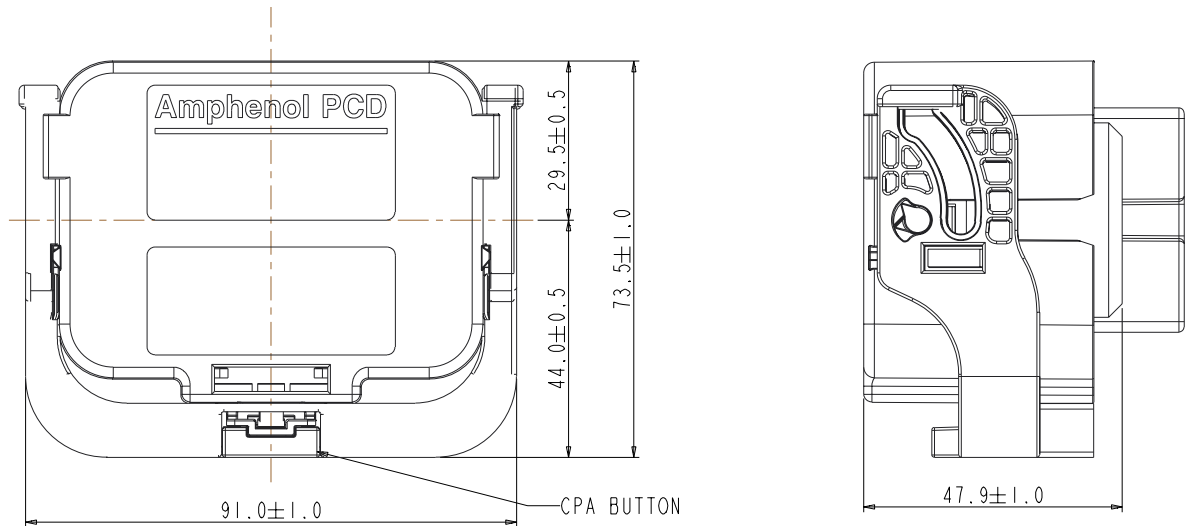
No tools required to unmate

Various fuse ratings

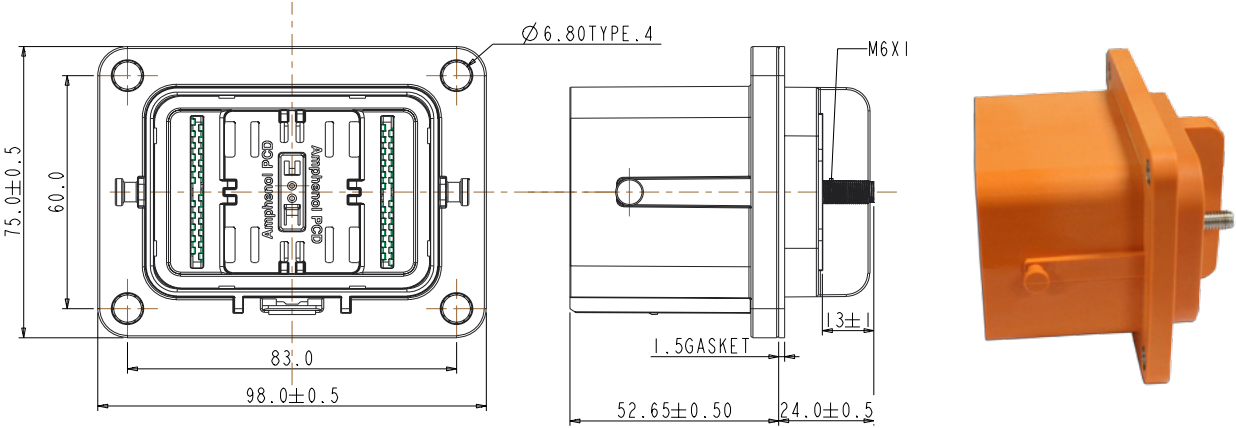
Receptacle can be front or rear mounted

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	

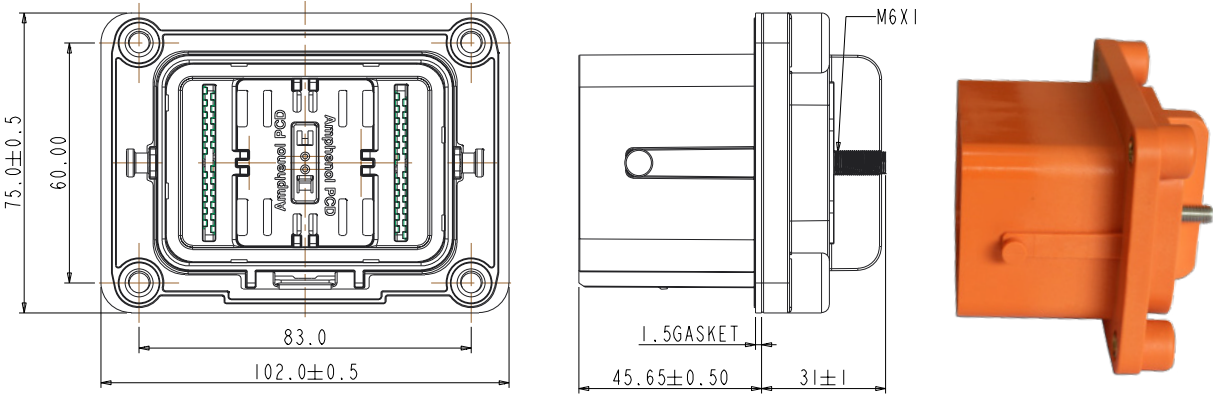
PRODUCT DIMENSIONS



FRONT MOUNTED



REAR MOUNTED



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					

Amphenol PCD Shenzhen

Building 21
1st Liao Keng Industrial Zone
Shi Yan Street, Bao An District Shenzhen 518108
China

Tel.: +86 755-8173-8000
Fax: +86 755-8173-8180
Email: inquiry@amphenolpcd.com.cn

www.amphenolpcd.com.cn

Notes:

Amphenol PCD Shenzhen has made every effort to ensure that the information contained in this catalog is accurate at the time of publication. Specifications or information stated in this publication are subject to change without notice.

Amphenol PCD Shenzhen reserves the right to clarify this catalog.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9