



ZHEJIANG FULLWILL ELECTRIC CO., LTD.

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USFULL



COMBINER BOX

Designed for precise control



ZHEJIANG FULLWILL ELECTRIC CO., LTD.

COMPANY INTRODUCTION



Zhejiang Fullwill Electric Co., Ltd. (USFULL), established in 2005, mainly manufactures Variable Frequency Drive, Solar Pumping Inverter, Combiner Box, Solar Accessories and many low voltage electric products. USFULL holds CB, TUV, CE, ISO, Inmetro certificates, IEC test reports and other relevant certifications.

 200+ Employees

 40+ R&D Team Members

 200+ Business Partners



USFULL

2005

Wenzhou Fullwill Electric Co., Ltd. was established.

2010

Launched the FU9000 series, driving market expansion for our inverter range.

2008

Develop low-voltage market and develop electrical equipment.

2015

The company fully introduced the quality management system.

2018

Rated as a national high-tech enterprise and a provincial high enterprise.

2023

The company relocated to a self-built factory.

2020

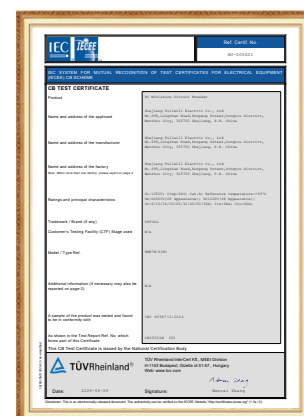
Started independent research and development of photovoltaic supporting series products.

2016

Expanded into global markets, achieving a major breakthrough in inverter export sales.

2014

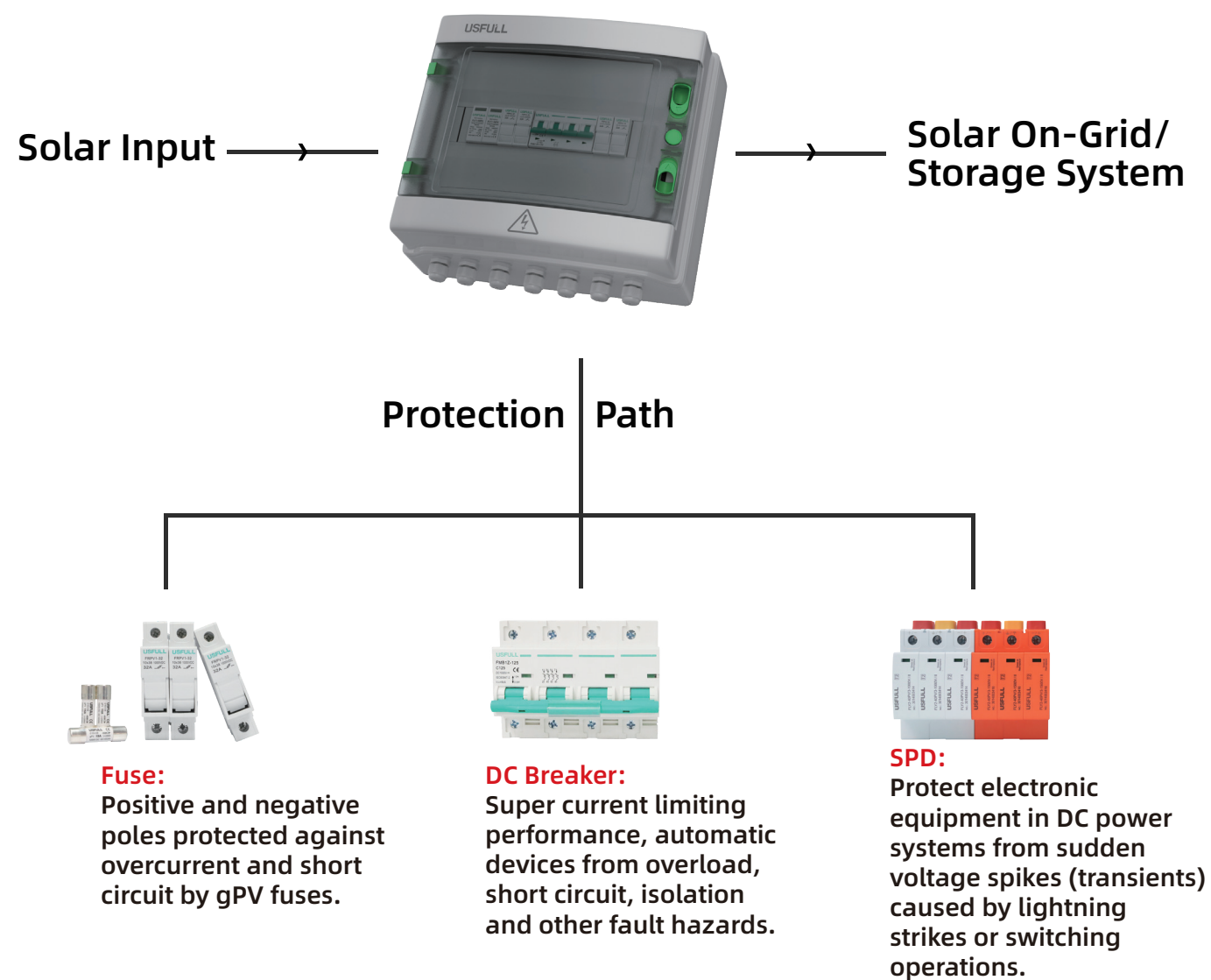
Upgraded to Zhejiang Fullwill Electric Co., Ltd.



Combiner Box	USFULL COMBINER BOX					PAGE
	PHOTOVOLTAIC COMBINER BOX SYSTEM					01
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	COMBINER BOX MODEL NAMING RULES					02
500VDC PLASTIC PV COMBINER BOX	500VDC PLASTIC PV COMBINER BOX					03
	MODEL	VOLTAGE	BOX MATERIAL	INPUT STRING	OUTPUT STRING	PAGE
	FUCB-LDP1/1N	500VDC	PLASTIC	1	1	04
	FUCB-LDP2/1N	500VDC	PLASTIC	2	1	04
	FUCB-LDP3/1N	500VDC	PLASTIC	3	1	05
	FUCB-LDP4/1N	500VDC	PLASTIC	4	1	05
	FUCB-LDP5/1N	500VDC	PLASTIC	5	1	06
	FUCB-LDP6/1N	500VDC	PLASTIC	6	1	06
	FUCB-LDP2/2N	500VDC	PLASTIC	2	2	07
	FUCB-LDP4/2N	500VDC	PLASTIC	4	2	07
1000VDC PLASTIC PV COMBINER BOX	1000VDC PLASTIC PV COMBINER BOX					08
	MODEL	VOLTAGE	BOX MATERIAL	INPUT STRING	OUTPUT STRING	PAGE
	FUCB-MDP1/1N	1000VDC	PLASTIC	1	1	09
	FUCB-MDP2/1N	1000VDC	PLASTIC	2	1	09
	FUCB-MDP3/1N	1000VDC	PLASTIC	3	1	10
	FUCB-MDP4/1N	1000VDC	PLASTIC	4	1	10
	FUCB-MDP5/1N	1000VDC	PLASTIC	5	1	11
	FUCB-MDP6/1N	1000VDC	PLASTIC	6	1	11
	FUCB-MDP2/2N	1000VDC	PLASTIC	2	2	12
	FUCB-MDP4/2N	1000VDC	PLASTIC	4	2	12
	FUCB-MDP3/3N	1000VDC	PLASTIC	3	3	13
1000VDC COMPACT PLASTIC PV COMBINER BOX	1000VDC COMPACT PLASTIC PV COMBINER BOX					14
	MODEL	VOLTAGE	BOX MATERIAL	INPUT STRING	OUTPUT STRING	PAGE
	FUCB-MDT2/1N	1000VDC	PLASTIC	2	1	14
	FUCB-MDT3/1N	1000VDC	PLASTIC	3	1	14
	FUCB-MDT4/1N	1000VDC	PLASTIC	4	1	15

1000VDC METAL PV COMBINER BOX	1000VDC METAL PV COMBINER BOX					16
	MODEL	VOLTAGE	BOX MATERIAL	INPUT STRING	OUTPUT STRING	PAGE
	FUCB-MD4(30)/1Z	1000VDC	POWDER-COATED STEEL	4	1	17
	FUCB-MD6(30)/1Z	1000VDC	POWDER-COATED STEEL	6	1	17
	FUCB-MD8(30)/1Z	1000VDC	POWDER-COATED STEEL	8	1	18
	FUCB-MD10(30)/1Z	1000VDC	POWDER-COATED STEEL	10	1	18
	FUCB-MD12(30)/1Z	1000VDC	POWDER-COATED STEEL	12	1	19
	FUCB-MD16(30)/1Z	1000VDC	POWDER-COATED STEEL	16	1	19
	FUCB-MD20(30)/1Z	1000VDC	POWDER-COATED STEEL	20	1	20
	FUCB-MD24(30)/1Z	1000VDC	POWDER-COATED STEEL	24	1	20
	FUCB-MD32(30)/1Z	1000VDC	POWDER-COATED STEEL	32	1	21
1500VDC METAL PV COMBINER BOX	1500VDC METAL PV COMBINER BOX					22
	MODEL	VOLTAGE	BOX MATERIAL	INPUT STRING	OUTPUT STRING	PAGE
	FUCB-HD4(35)/1Z	1500VDC	POWDER-COATED STEEL	4	1	23
	FUCB-HD8(35)/1Z	1500VDC	POWDER-COATED STEEL	8	1	23
	FUCB-HD12(35)/1Z	1500VDC	POWDER-COATED STEEL	12	1	24
	FUCB-HD16(35)/1Z	1500VDC	POWDER-COATED STEEL	16	1	24
	FUCB-HD20(35)/1Z	1500VDC	POWDER-COATED STEEL	20	1	25
	FUCB-HD24(35)/1Z	1500VDC	POWDER-COATED STEEL	24	1	25
	FUCB-HD32(35)/1Z	1500VDC	POWDER-COATED STEEL	32	1	26

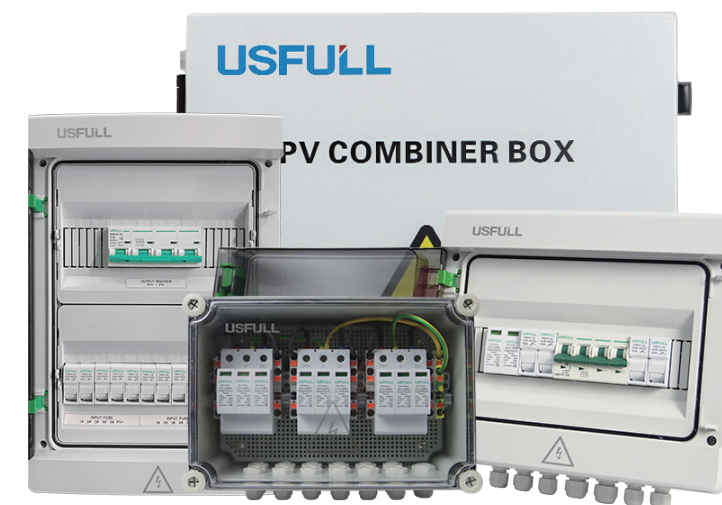
PHOTOVOLTAIC COMBINER BOX SYSTEM



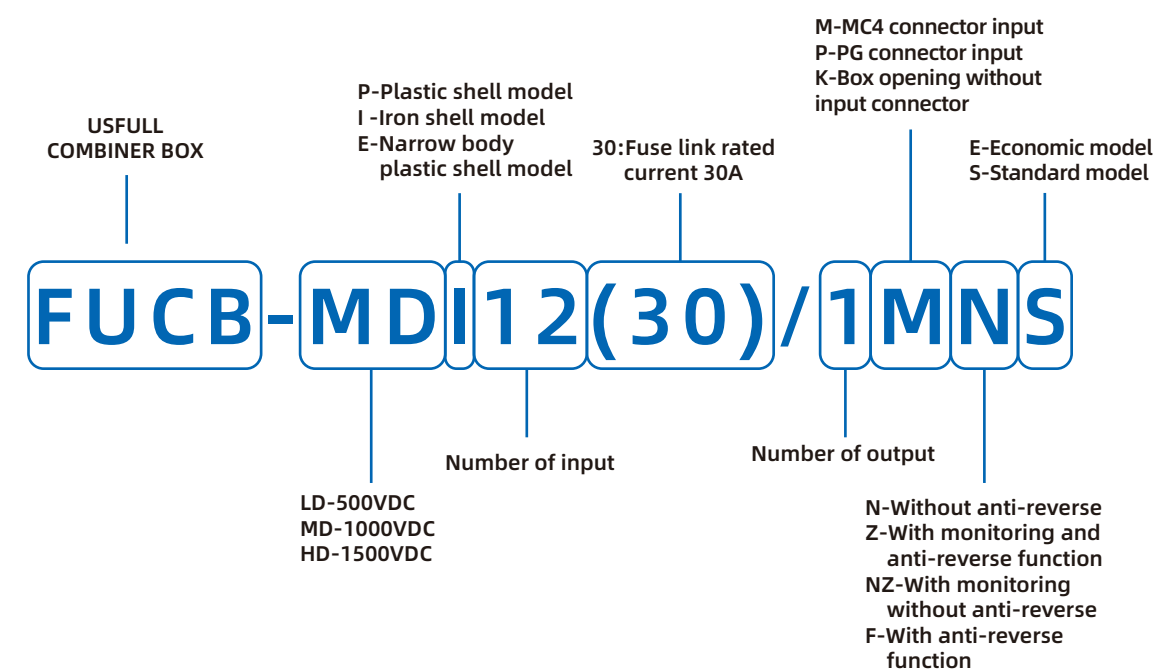
Optional



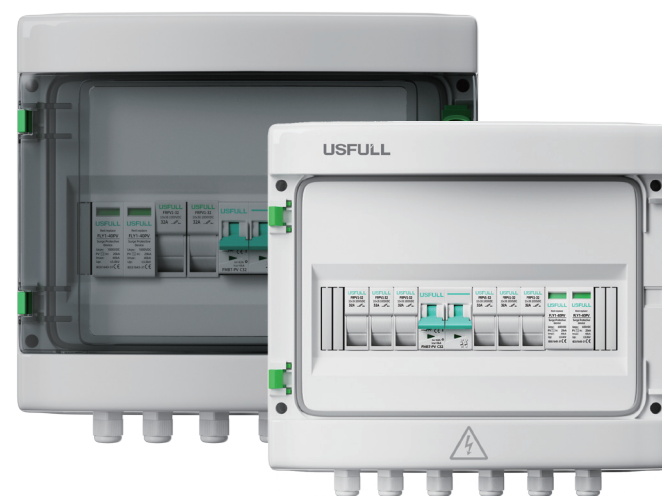
OUR COMBINER BOX PRODUCTS



COMBINER BOX MODEL NAMING RULES



Plastic PV Combiner Box



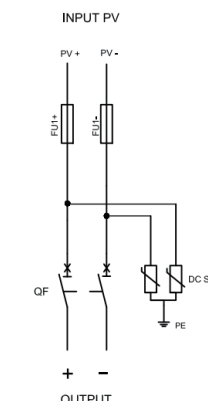
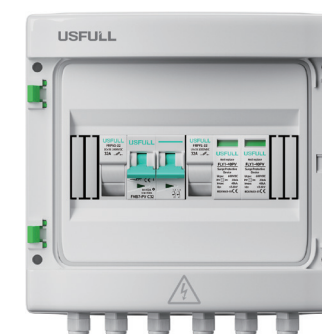
Specification

Model	LDP1/1N	LDP2/1N	LDP3/1N	LDP4/1N	LDP5/1N	LDP6/1N
Number of DC Inputs	1	2	3	4	5	6
Material of Box	ABS					
Max. Rated Voltage DC	500V					
DC Fuse	30A (Recommend 30A, support other ampere)					
Fuse Holder	1000V DC 32A					
Surge Protection DC	Type II, In =20kA, Iimp=40kA, Ucpv=600V DC					
Over -Voltage Category	Cat III					
Connection Type DC Input	PG09/PV Connector, IP68					
Input Cable Size for Negative and Positive	Φ4-8mm					
Number of DC Outputs	1 (Customizable output configurations available)					
Connection Type DC Output	PG16/PG19/PG21					
Ambient Temperature Range/Humidity	Temperature: -20℃~+60℃, Humidity: 0-99%					
Altitude	≤2000m Derating for above 2000m					
Installation	Wall mounting / Padlockable latch					

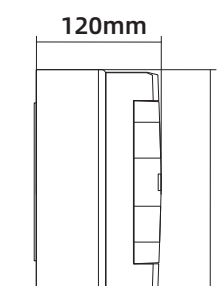
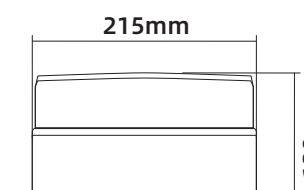
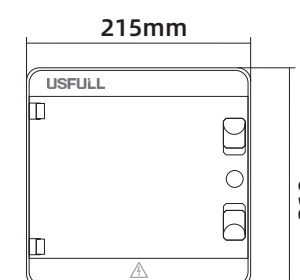
Optional Customized Service

1. Support PV connector
2. Support drawing customization
3. Support installation of DC isolator switch
4. Support 2 input 2 output, 4 input 2 output, etc.

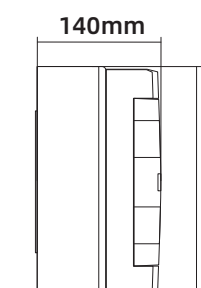
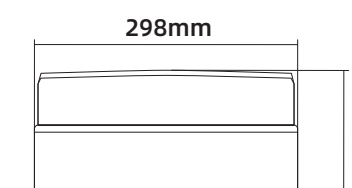
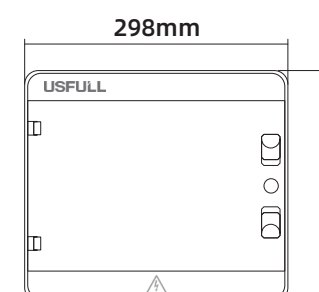
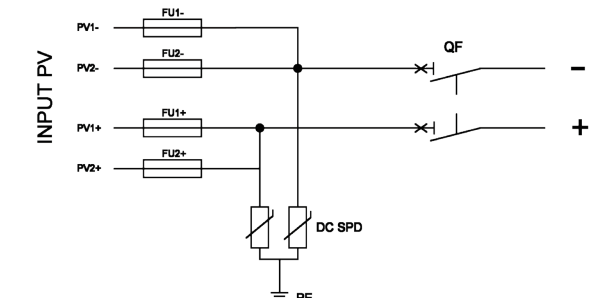
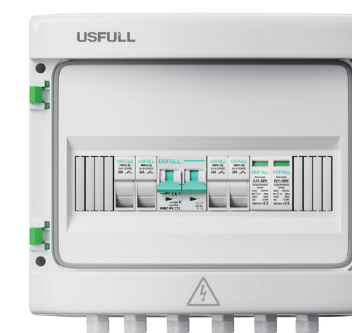
FUCB-LDP1/1N



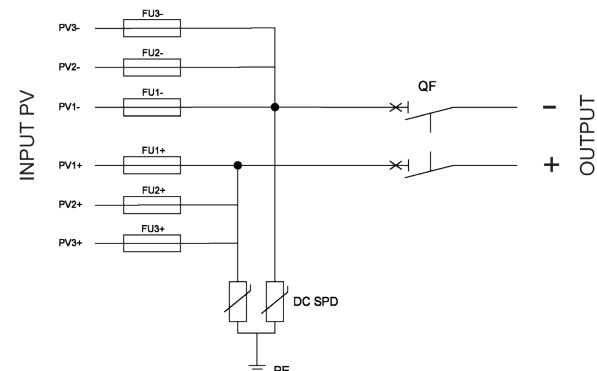
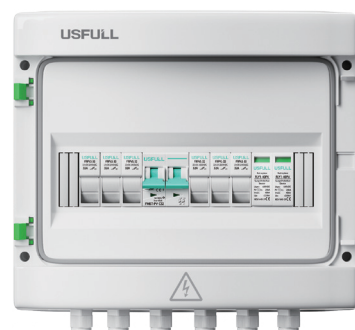
Product Dimension Drawing(mm)



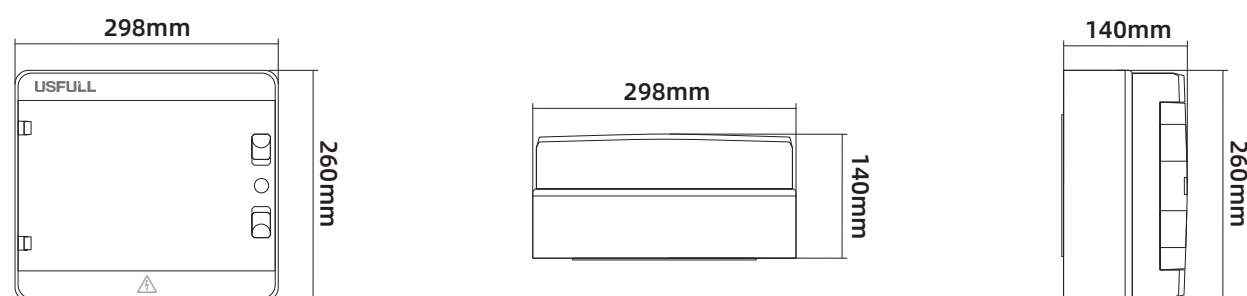
FUCB-LDP2/1N



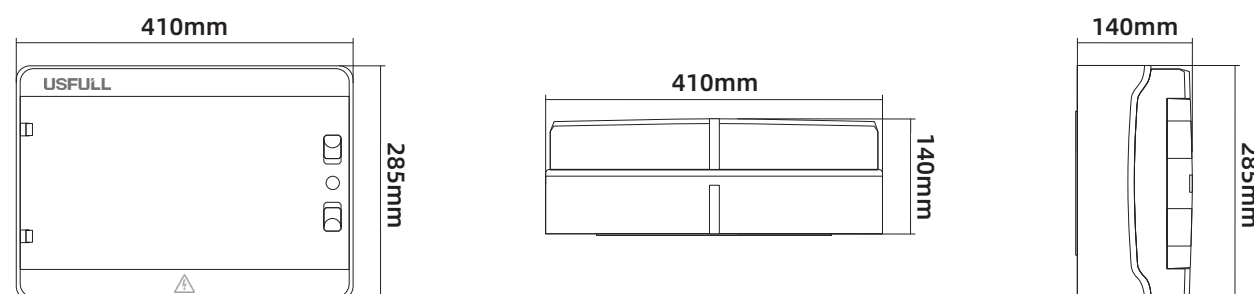
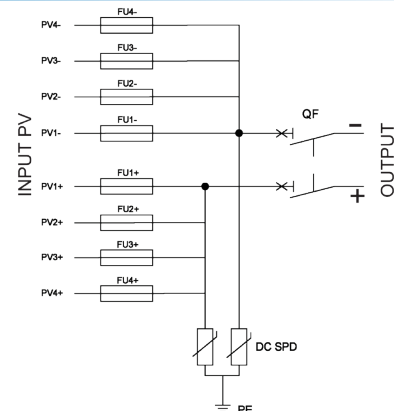
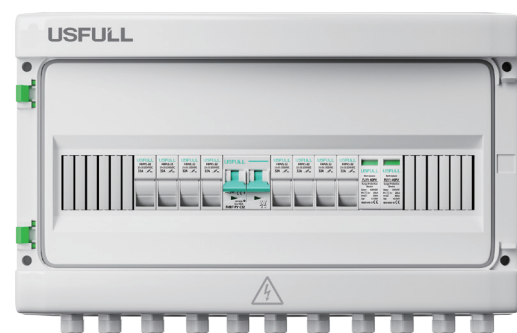
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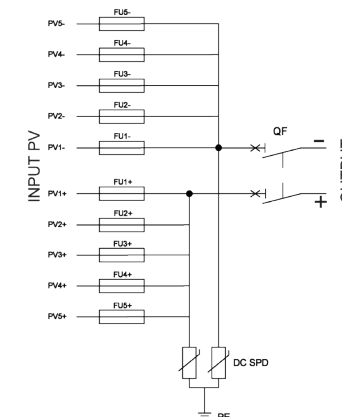
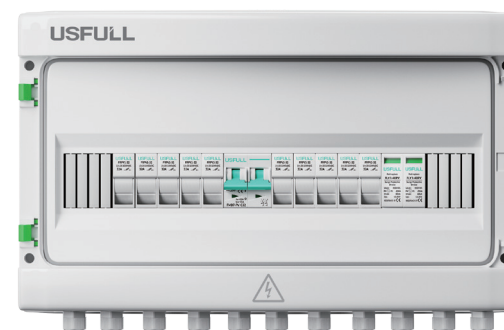
Product Dimension Drawing(mm)



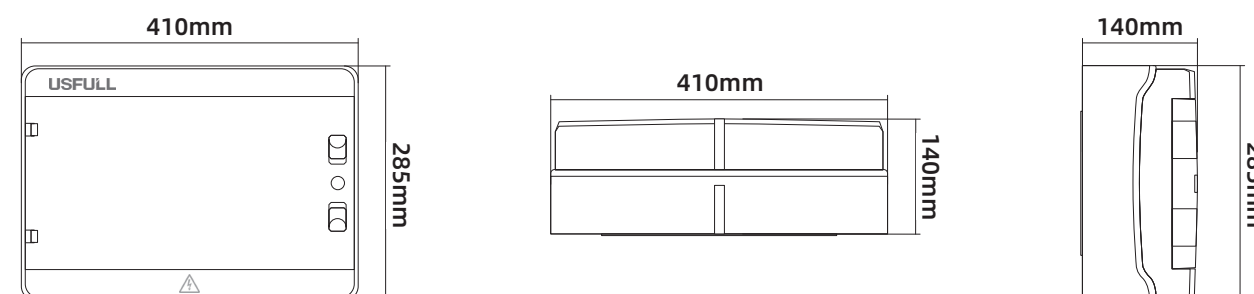
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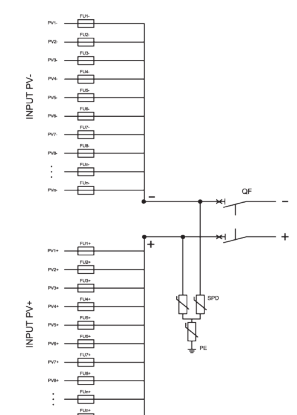
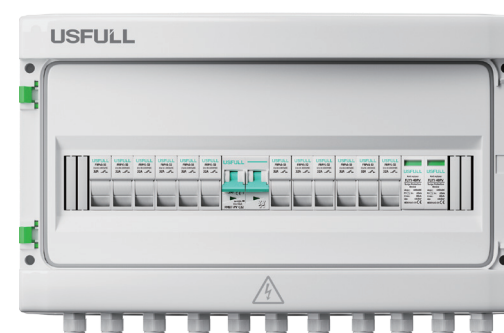
FUCB-LDP5/1N



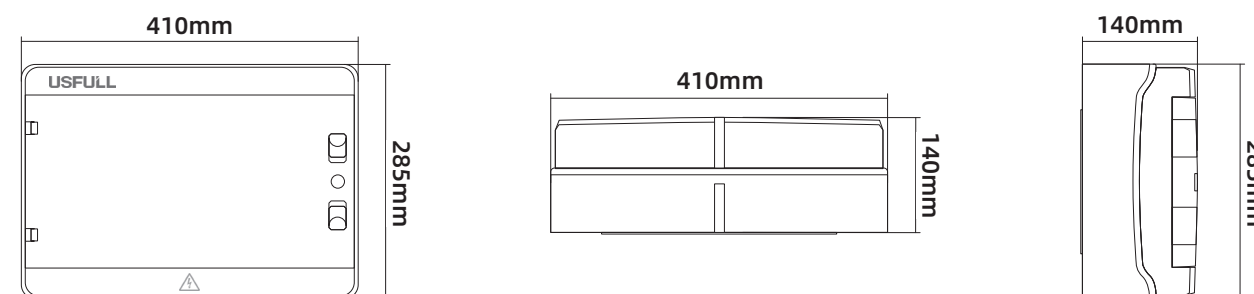
Product Dimension Drawing(mm)



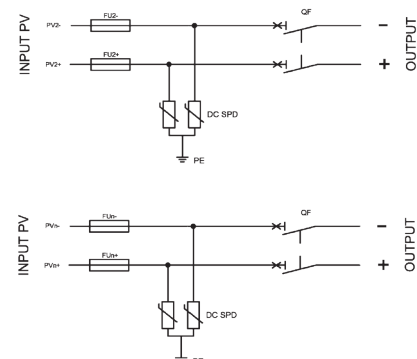
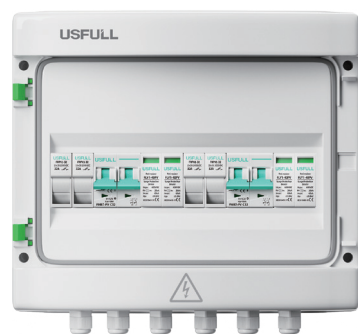
FUCB-LDP6/1N



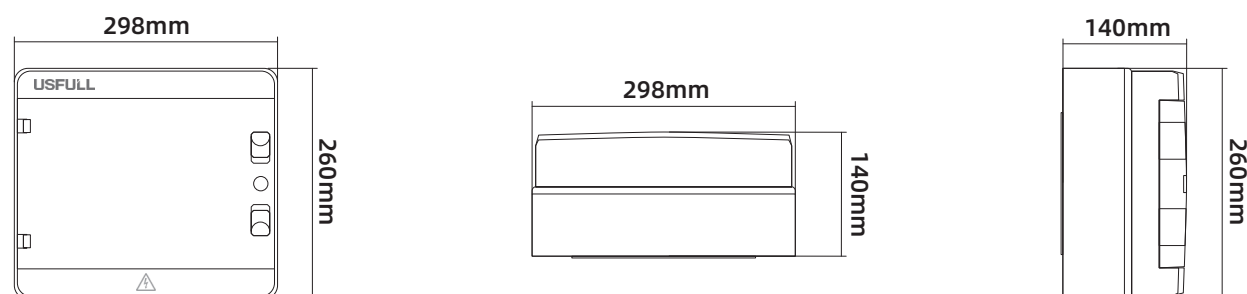
Product Dimension Drawing(mm)



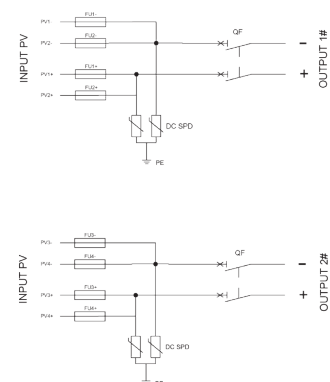
FUCB-LDP2/2N



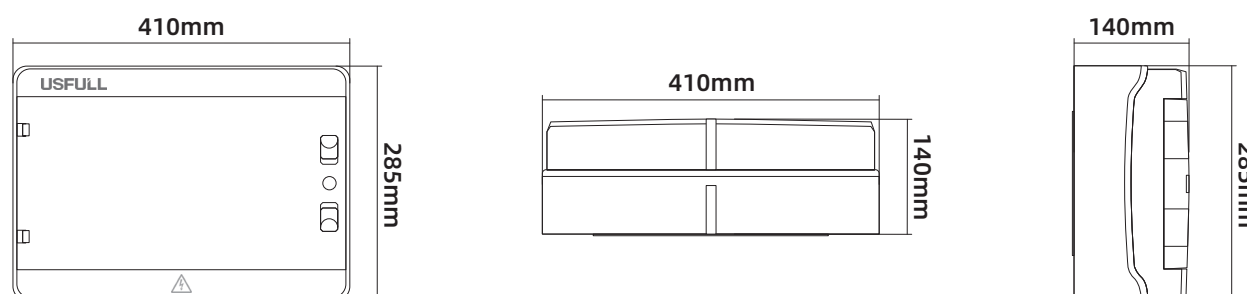
Product Dimension Drawing(mm)



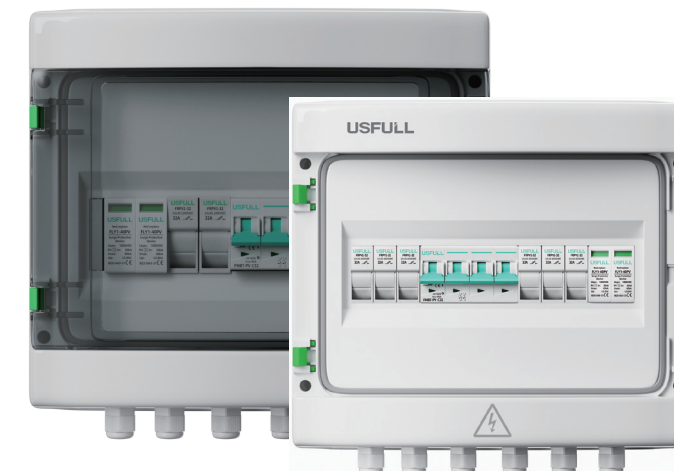
FUCB-LDP4/2N



Product Dimension Drawing(mm)



Plastic PV Combiner Box



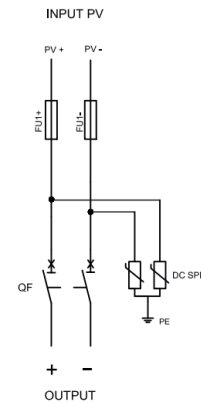
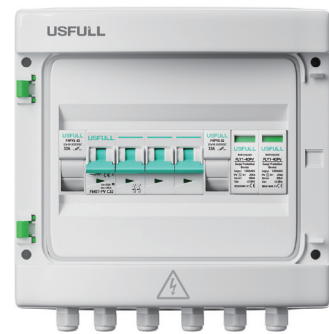
Specification

Model	MDP1/1N	MDP2/1N	MDP3/1N	MDP4/1N	MDP5/1N	MDP6/1N
Number of DC Inputs	1	2	3	4	5	6
Material of Box	ABS					
Max. Rated Voltage DC	1000V					
DC Fuse	30A (Recommend 30A, support other ampere)					
Fuse Holder	1000V DC 32A					
Surge Protection DC	Type II, In =20kA, Iimp=40kA, Ucpv=1000V DC					
Over -Voltage Category	Cat III					
Connection Type DC Input	PG09/PV Connector, IP68					
Input Cable Size for Negative and Positive	Φ4-8mm					
Number of DC Outputs	1 (Customizable output configurations available)					
Connection Type DC Output	PG16/PG19/PG21					
Ambient Temperature Range/Humidity	Temperature: -20°C~+60 °C, Humidity: 0 - 99%					
Altitude	≤2000m Derating for above 2000m					
Installation	Wall mounting / Padlockable latch					

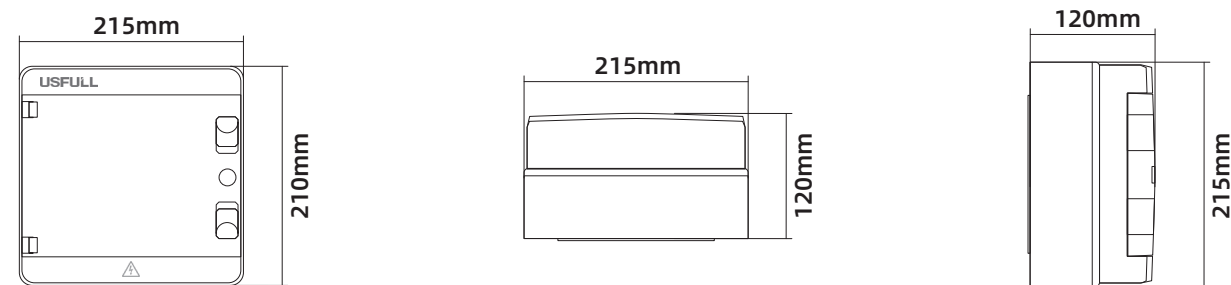
Optional Customized Service

1. Support PV connector
2. Support drawing customization
3. Support installation of DC isolator switch
4. Support 2 input 2 output, 4 input 2 output, etc.

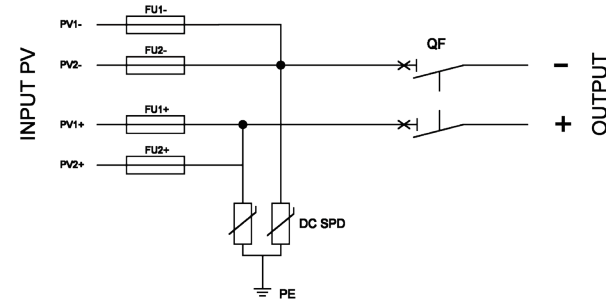
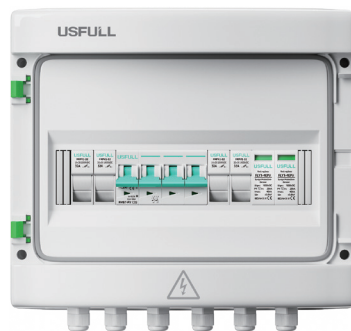
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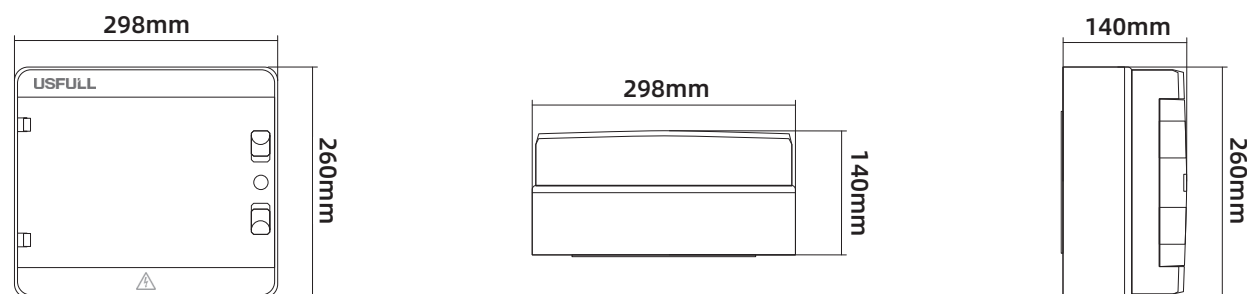
Product Dimension Drawing(mm)



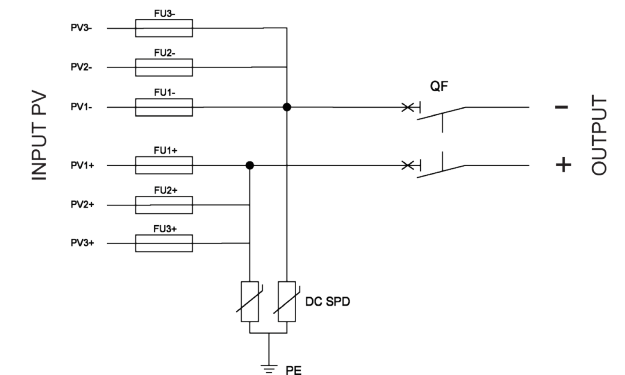
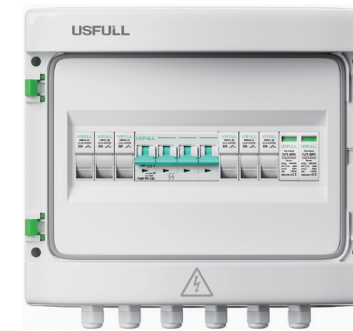
FUCB-MDP2/1N



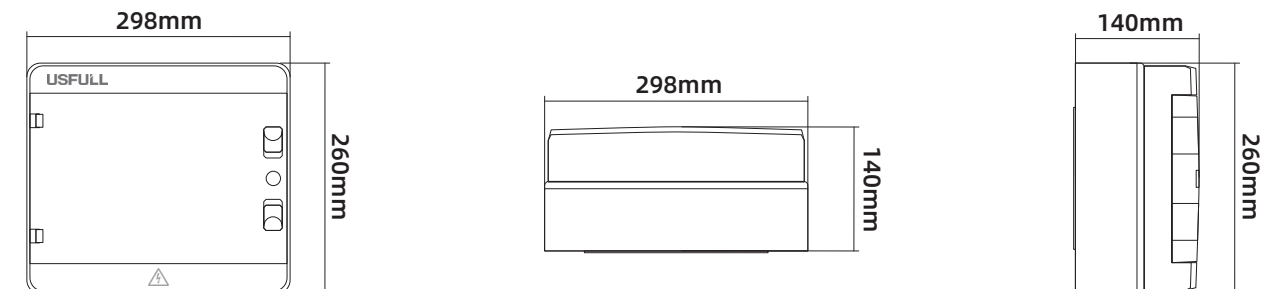
Product Dimension Drawing(mm)



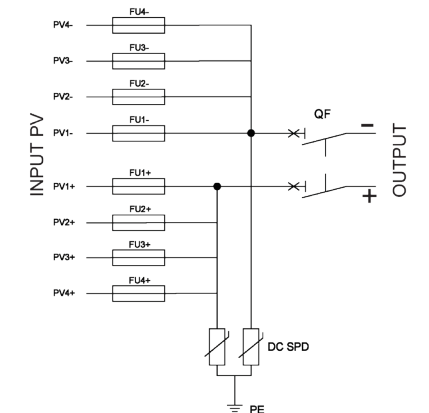
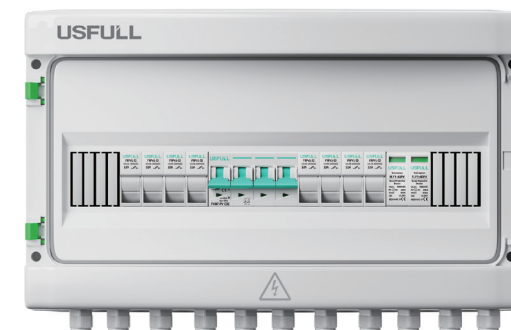
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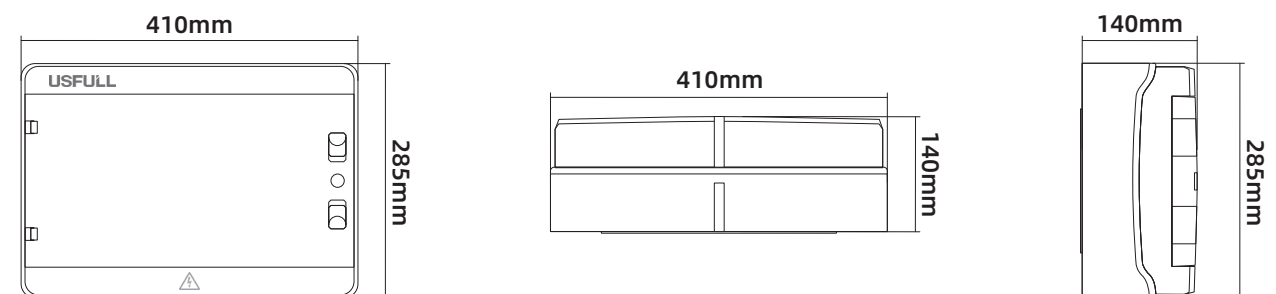
Product Dimension Drawing(mm)



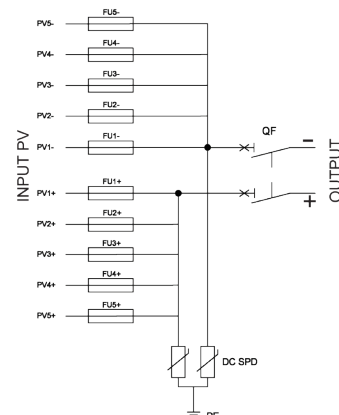
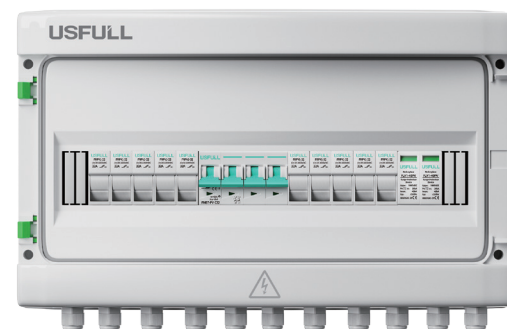
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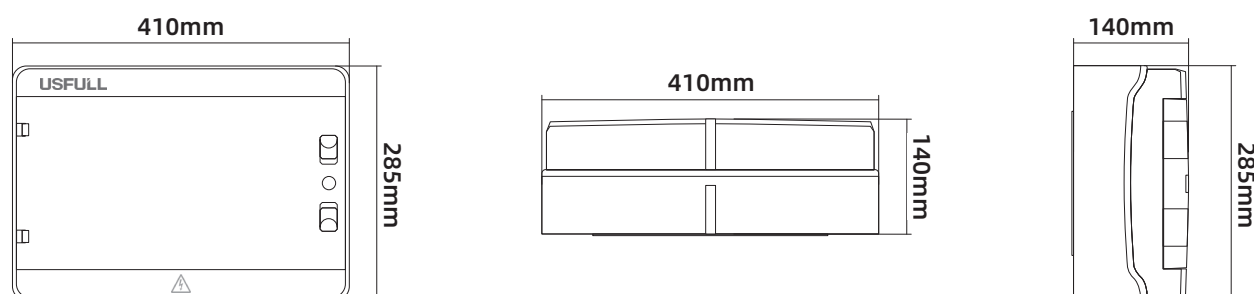
Product Dimension Drawing(mm)



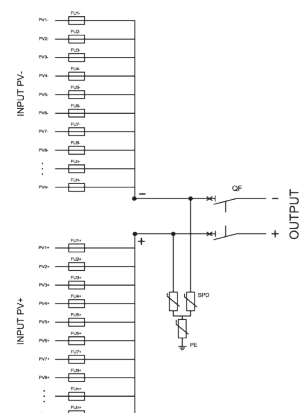
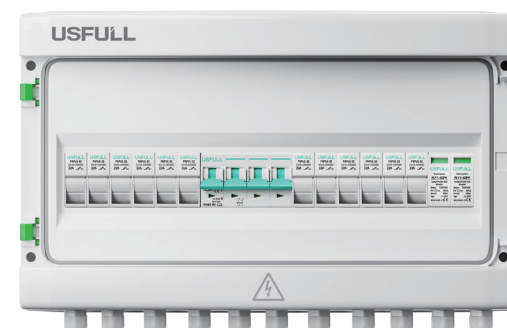
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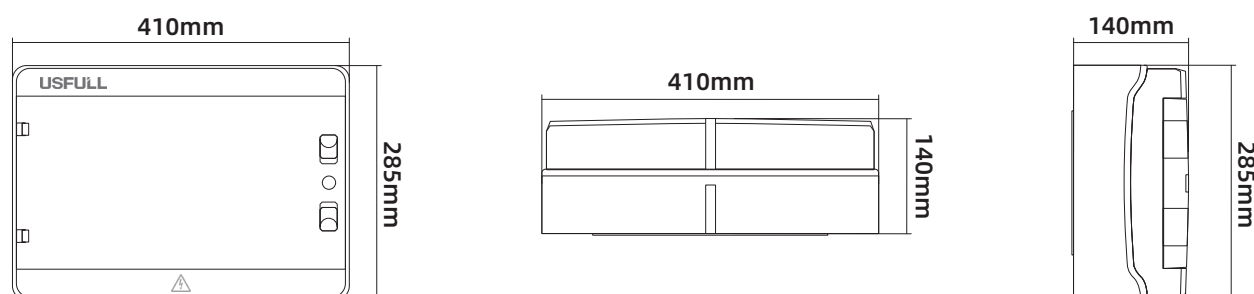
Product Dimension Drawing(mm)



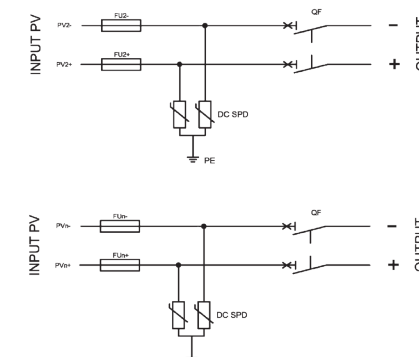
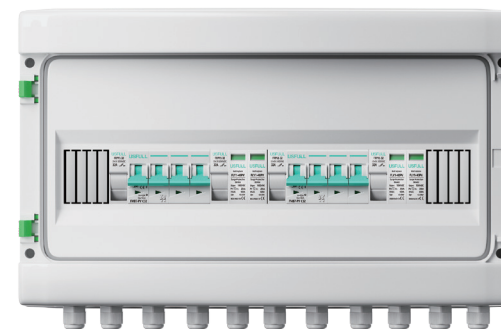
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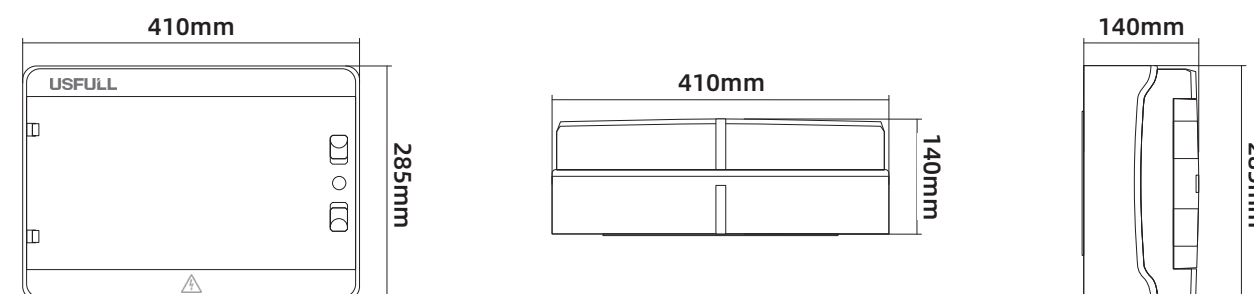
Product Dimension Drawing(mm)



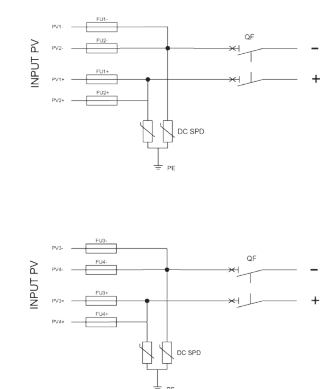
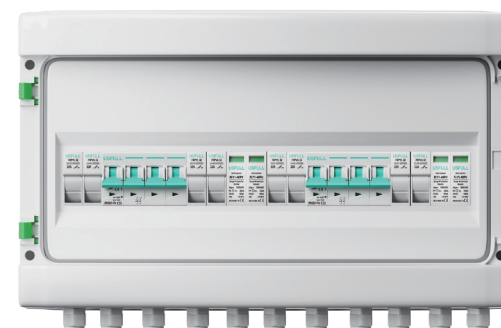
FUCB-MDP2/2N



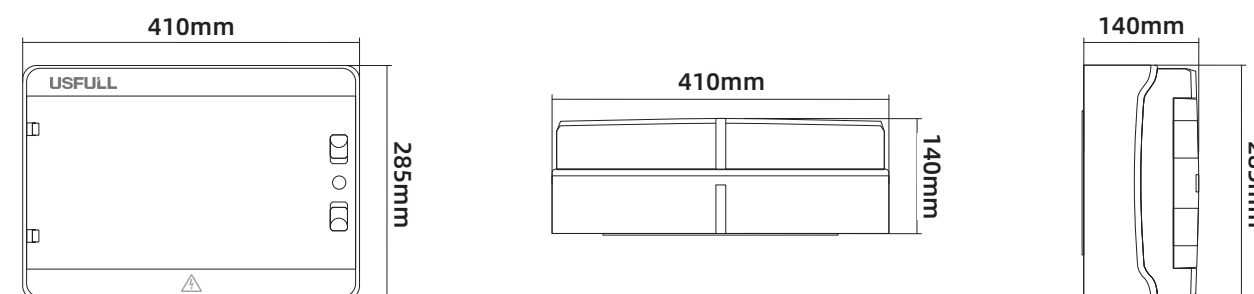
Product Dimension Drawing(mm)



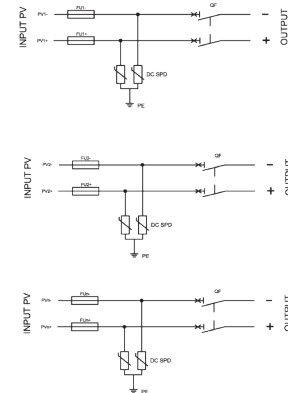
FUCB-MDP4/2N



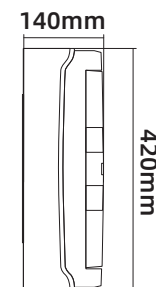
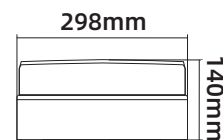
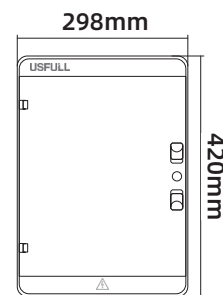
Product Dimension Drawing(mm)



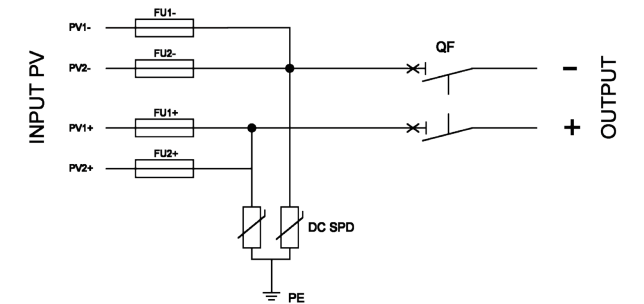
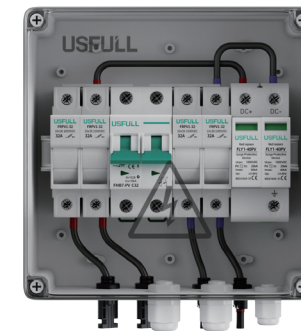
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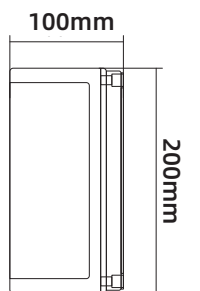
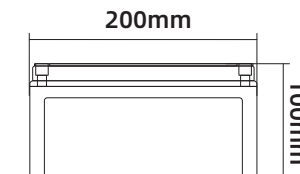
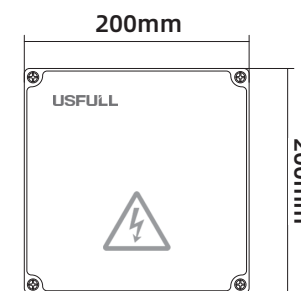
Product Dimension Drawing(mm)



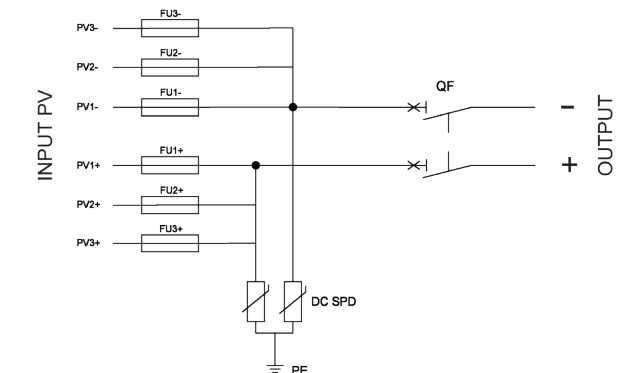
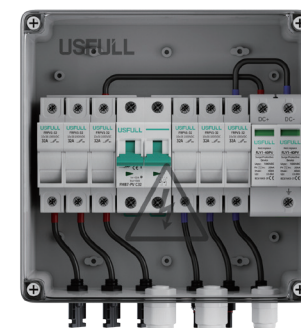
FUCB-MDT2/1N



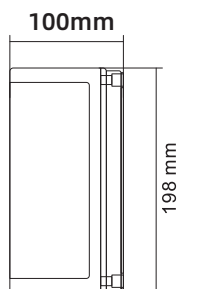
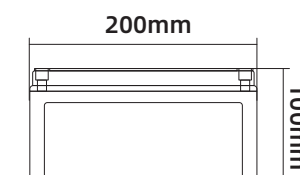
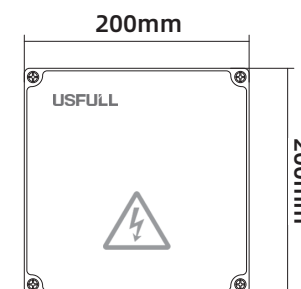
Product Dimension Drawing(mm)



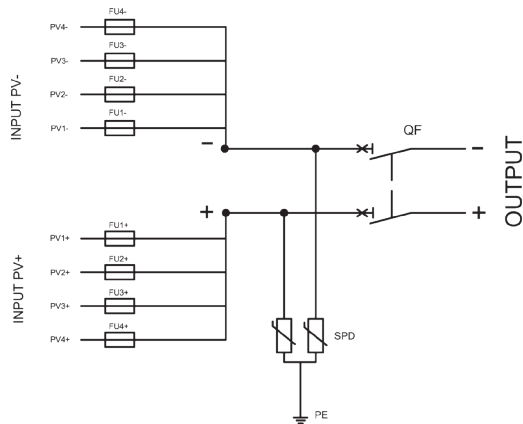
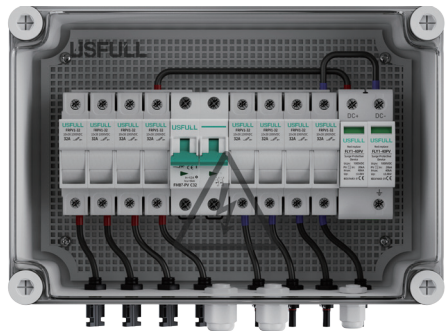
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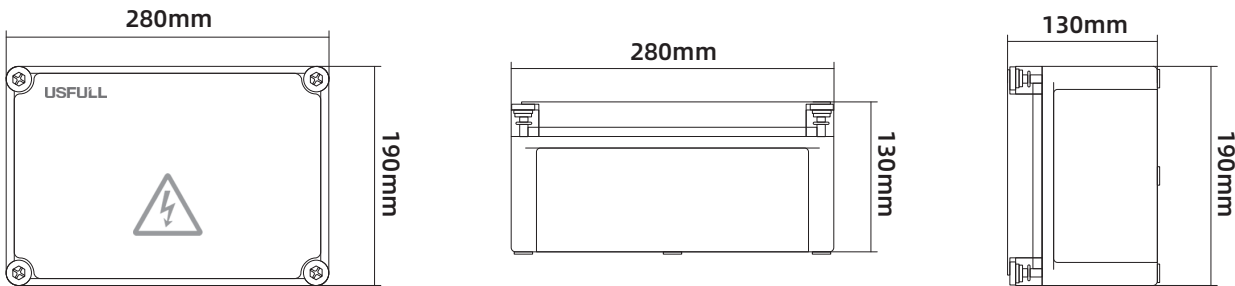
Product Dimension Drawing(mm)



FUCB-MDT4/1N



Product Dimension Drawing(mm)



Metal PV Combiner Box



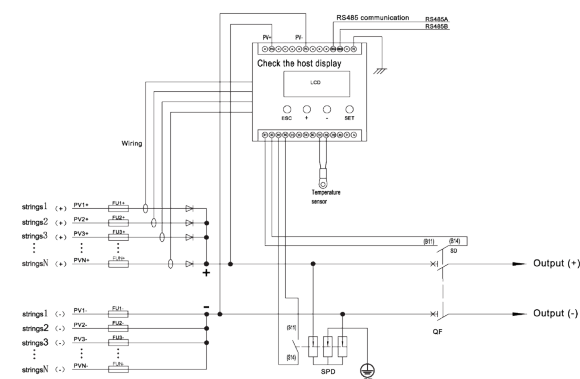
Specification

Model(FUCB Series)	MD4/1	MD6/1	MD8/1	MD12/1	MD16/1	MD20/1	MD24/1	MD32/1
Model(FUCB Series)	4	6	8	12	16	20	24	32
Material of Box	Coated Iron							
Protection Level	IP65							
IK Impact Resistance Class	IK08							
Max. Rated Voltage DC	1000V							
DC Fuse	30A (Recommend 30A, support other ampere)							
Fuse Holder	1000V DC 32A							
Surge Protection DC	Type II, In=20kA, Imax=40kA, Ucpv=1000V DC							
Over-Voltage Category	Cat III							
Diode for The Function of Anti-reverse	Build-in							
Connection Type DC Input	PG09/PV connector, IP68							
Input Cable Size for Negative and Positive	Φ4 - 8 mm							
Number of DC Outputs	1 (Customizable output configurations available)							
Gland Connectors	Material:Nylon Plastic, Seals: Nitrile Rubber Buna, IP68							
Ambient Temperature Range/Humidity	Temperature:-20°C~+60°C, Humidity 0-99%							
Altitude	≤2000m Derating for above 2000m							
Installation	Wall mounting / Padlockable latch							

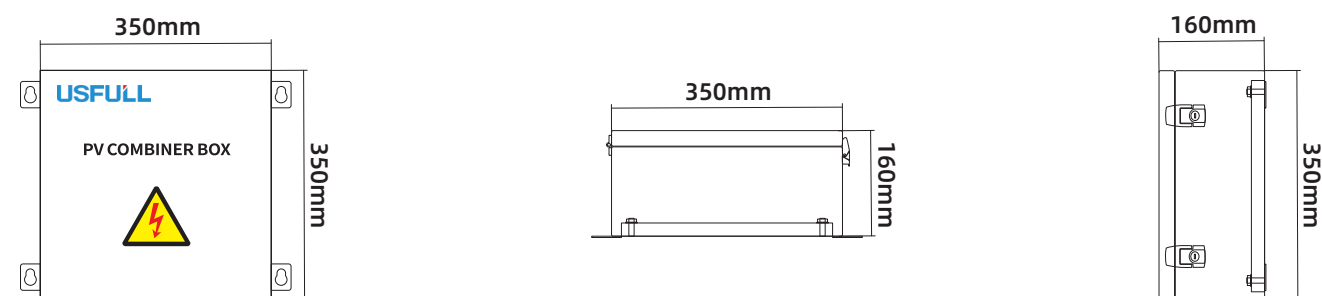
Optional Customized Service

- 1. Support 1500V
- 2. Support PV connector
- 3. Support monitoring function
- 4. Support installation of DC isolator switch
- 5. Support 2 input 2 output, 4 input 2 output, etc.

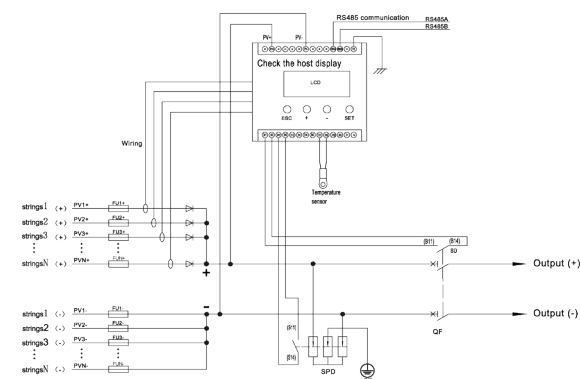
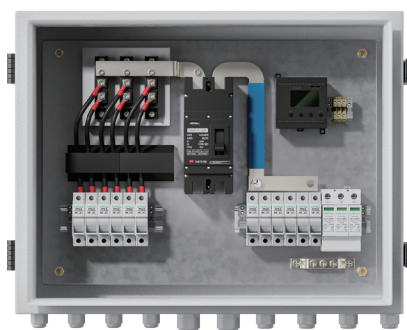
FUCB-MD4(30)/1Z



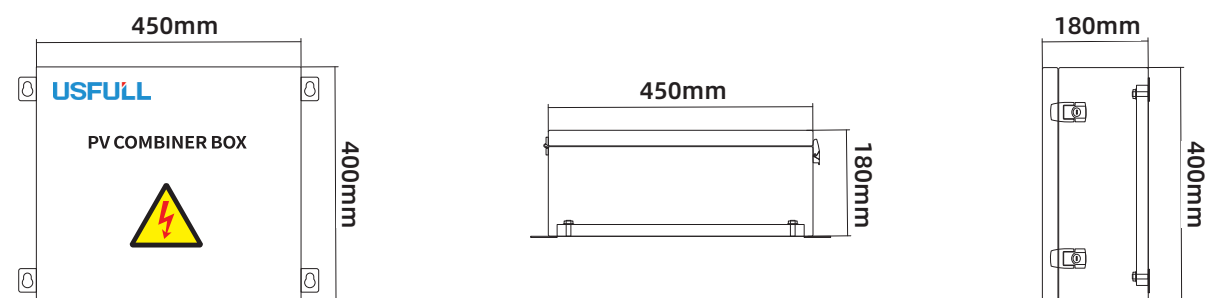
Product Dimension Drawing(mm)



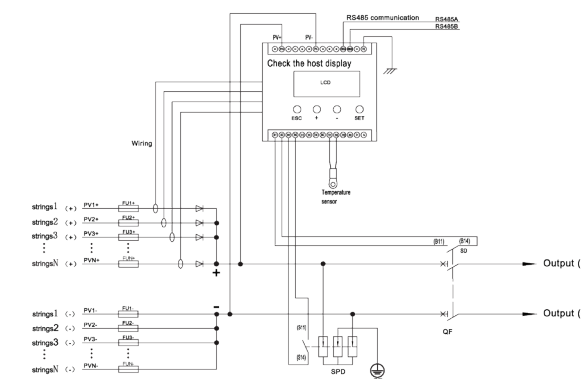
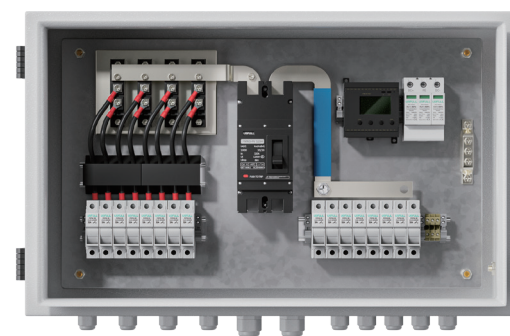
FUCB-MD6(30)/1Z



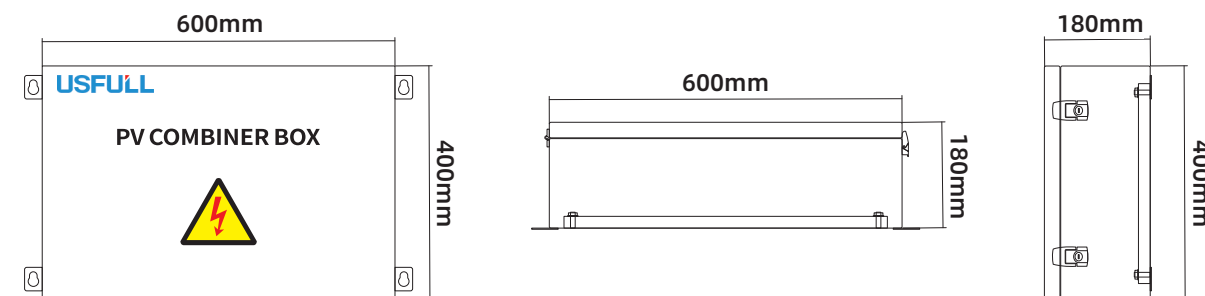
Product Dimension Drawing(mm)



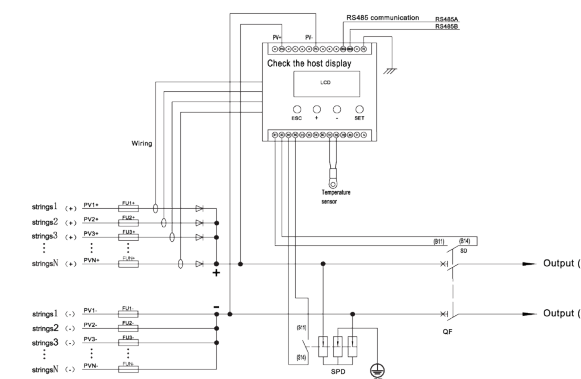
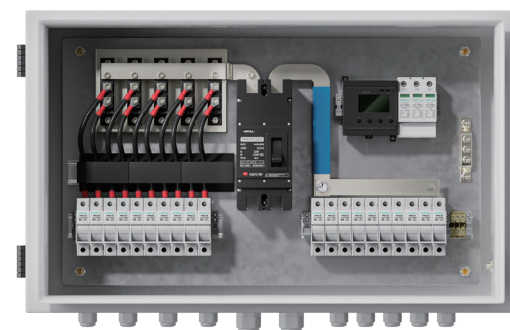
FUCB-MD8(30)/1Z



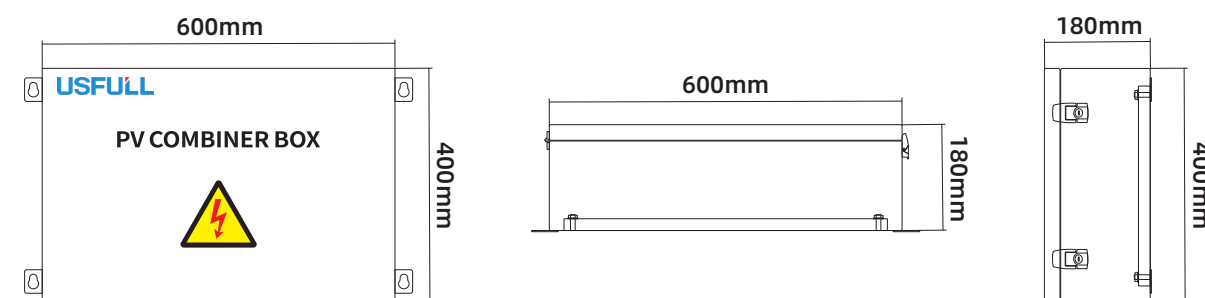
Product Dimension Drawing(mm)



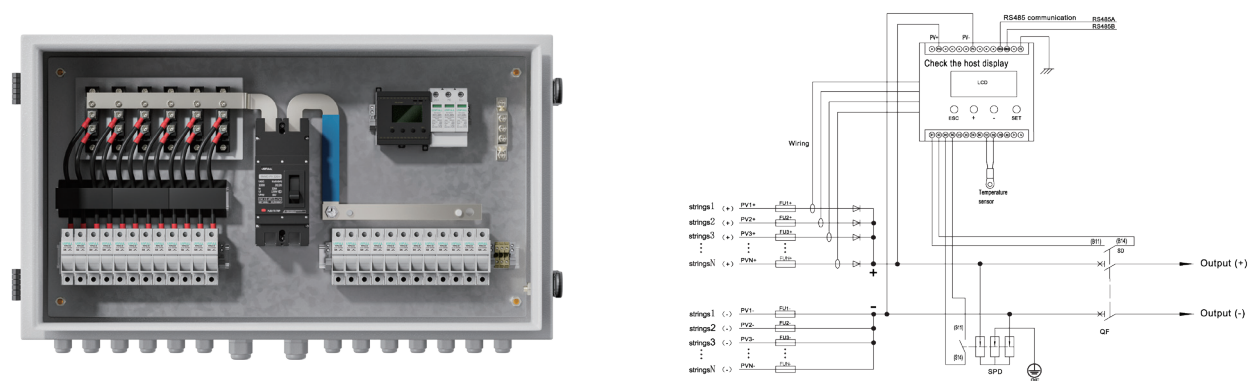
FUCB-MD10(30)/1Z



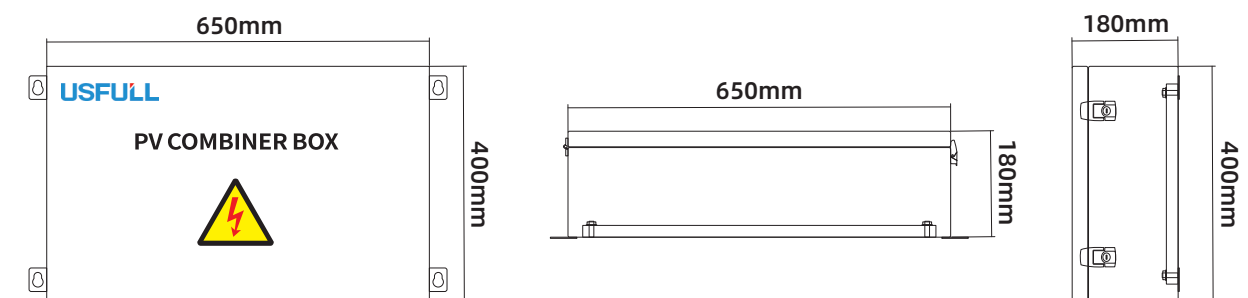
Product Dimension Drawing(mm)



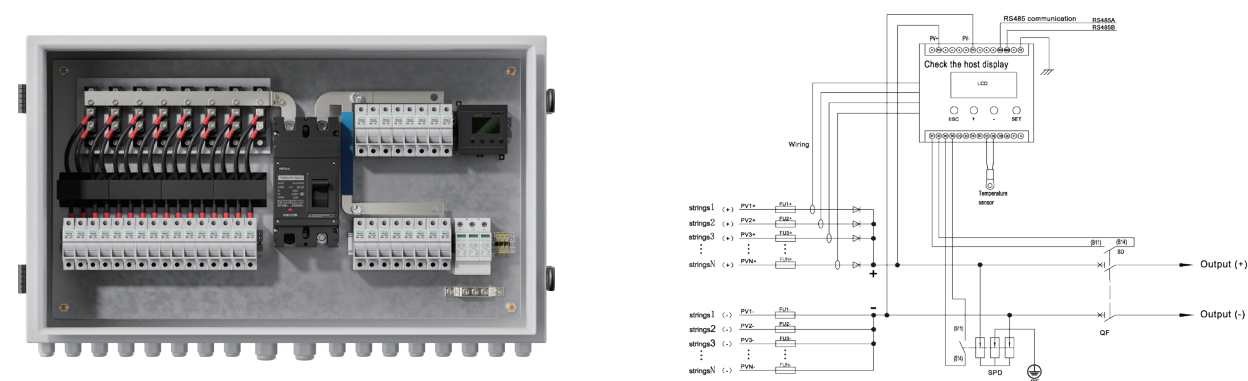
FUCB-MD12(30)/1Z



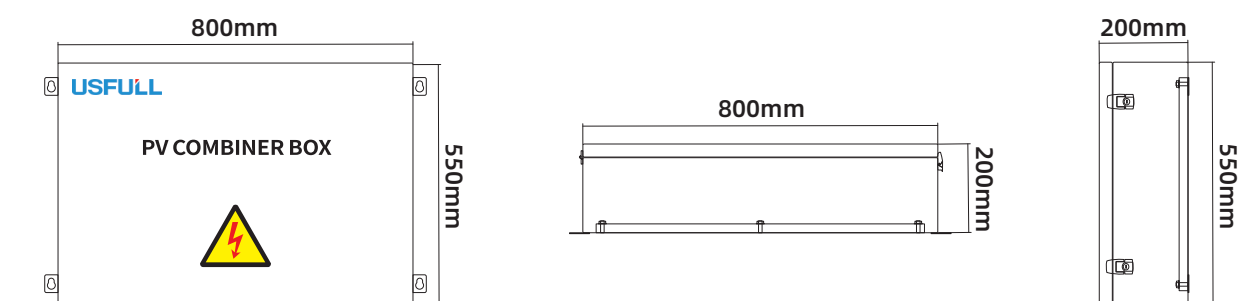
Product Dimension Drawing(mm)



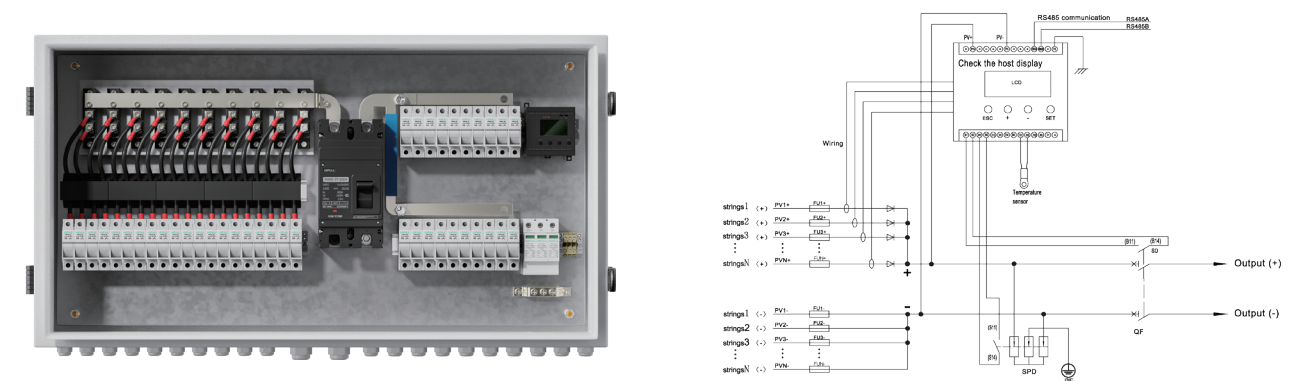
FUCB-MD16(30)/1Z



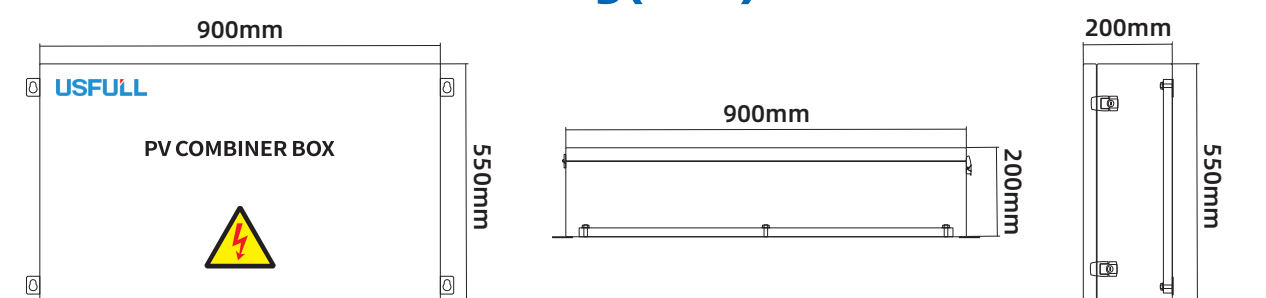
Product Dimension Drawing(mm)



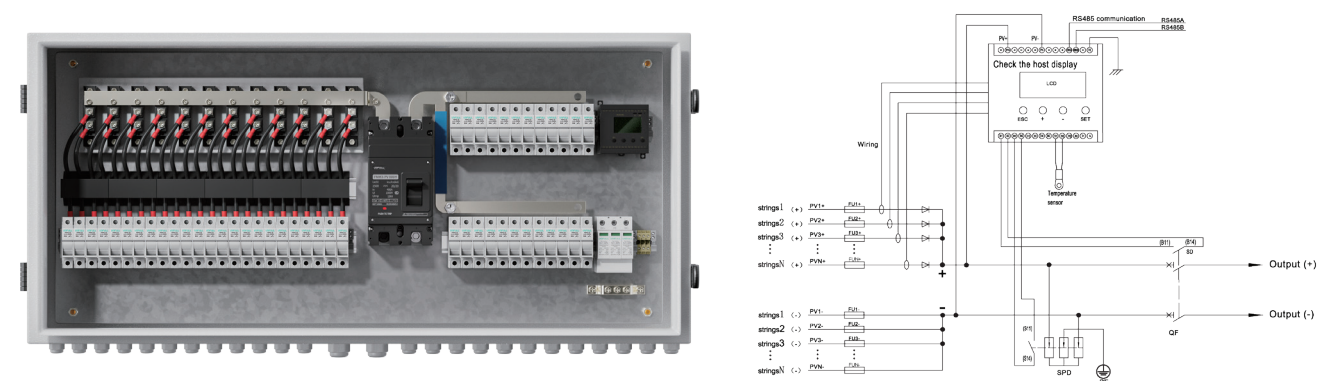
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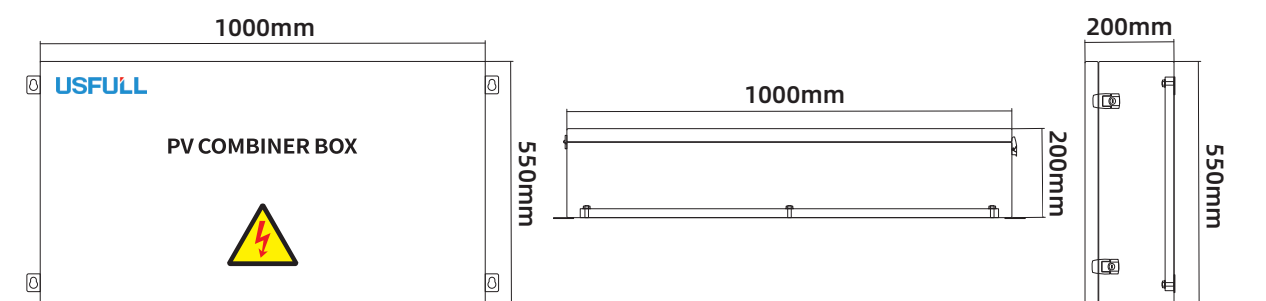
Product Dimension Drawing(mm)



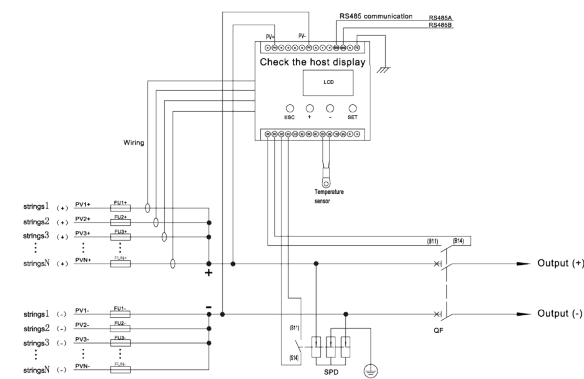
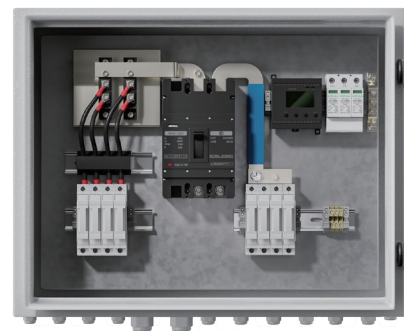
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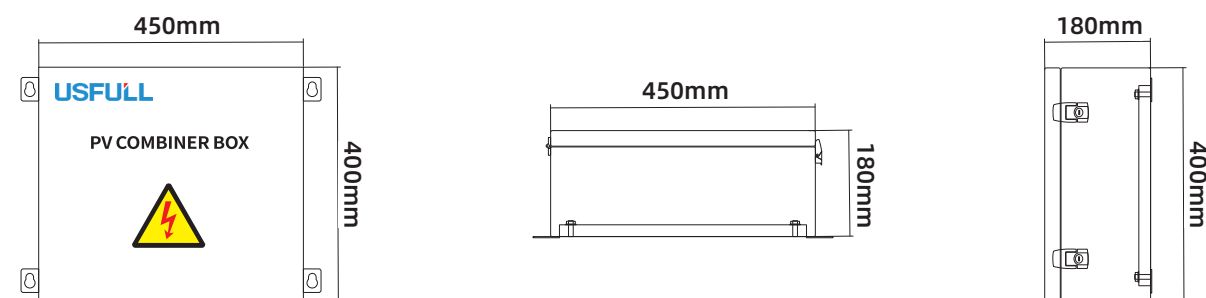
Product Dimension Drawing(mm)



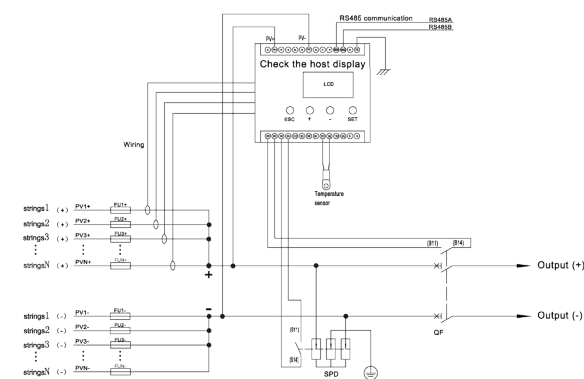
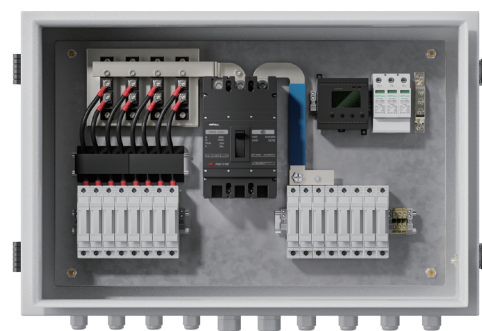
FUCB-HD4(35)/1Z



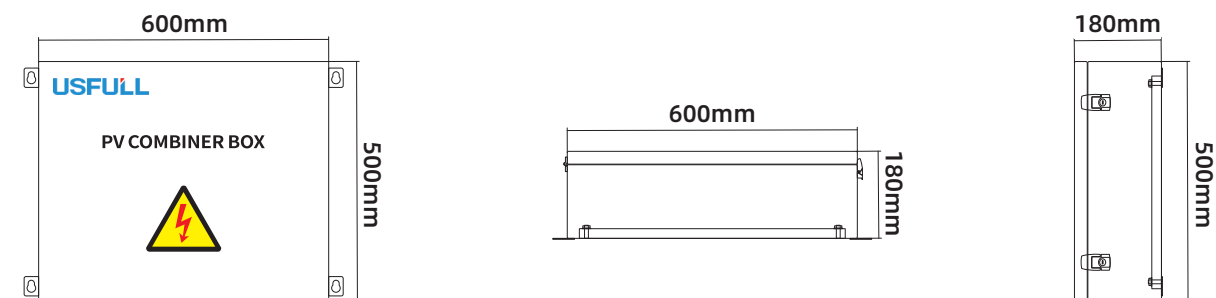
Product Dimension Drawing(mm)



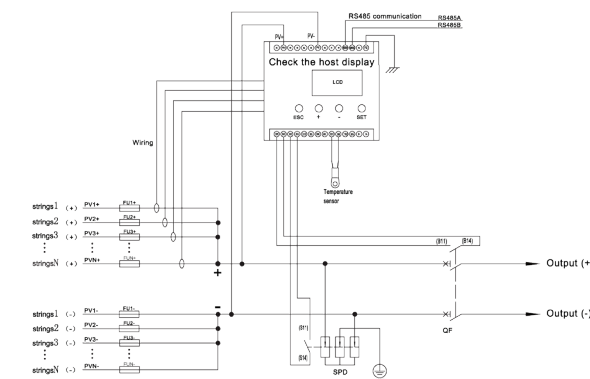
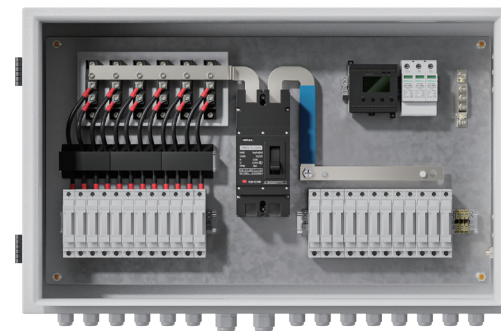
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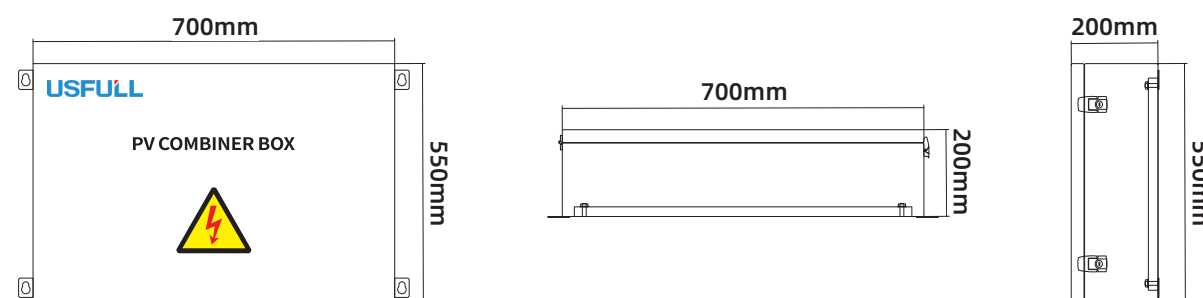
Product Dimension Drawing(mm)



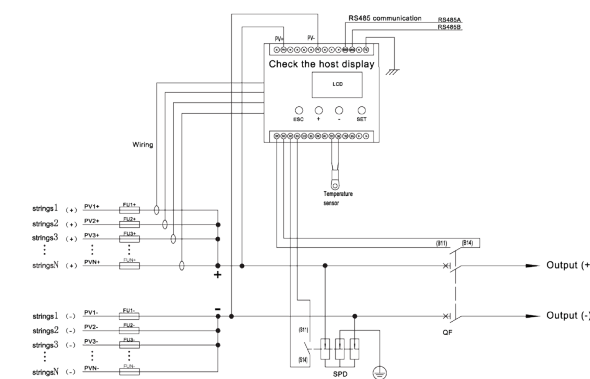
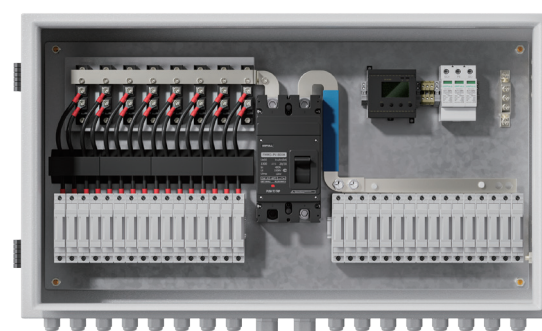
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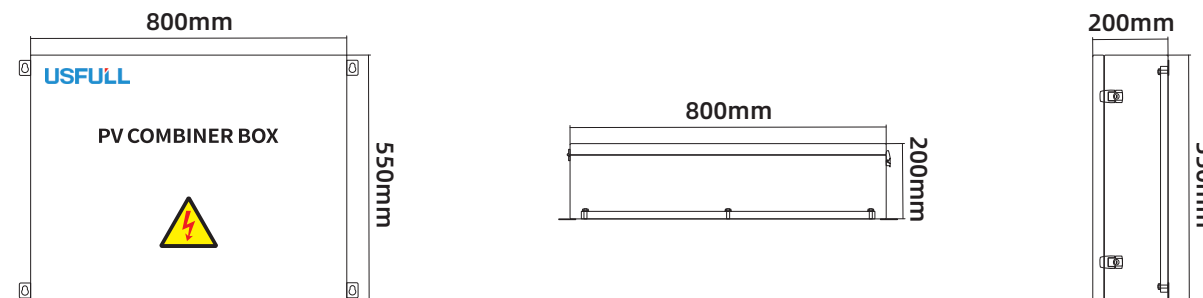
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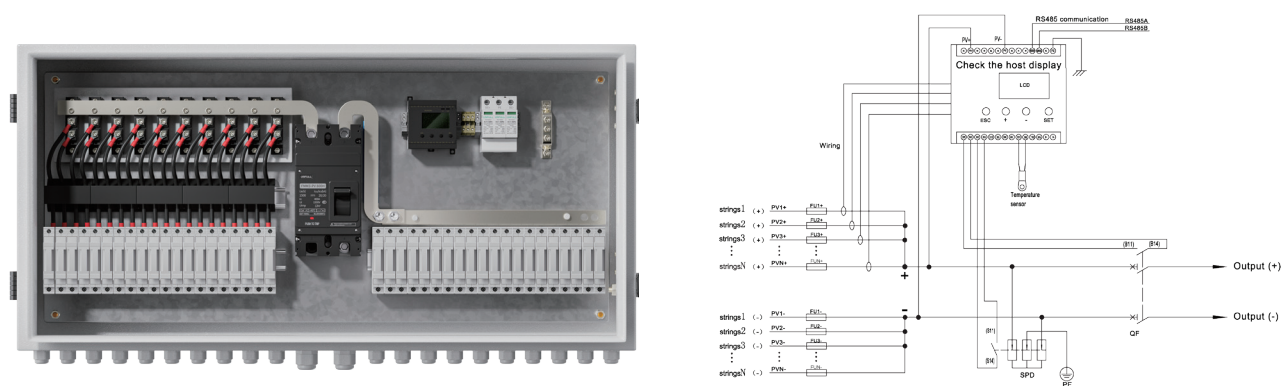
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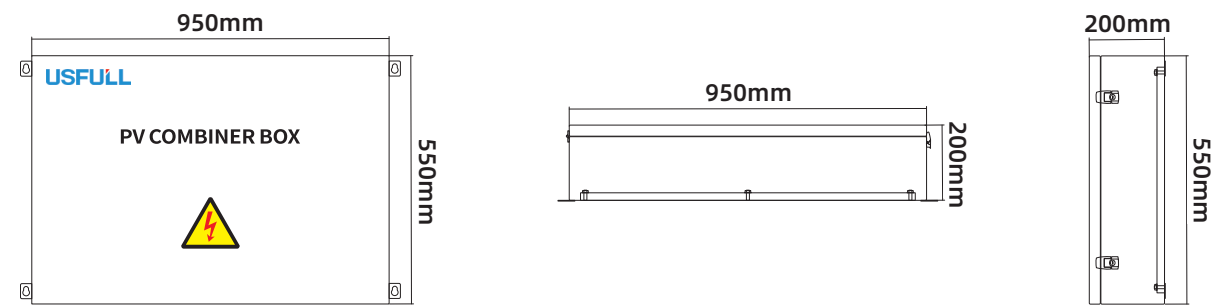
Product Dimension Drawing(mm)



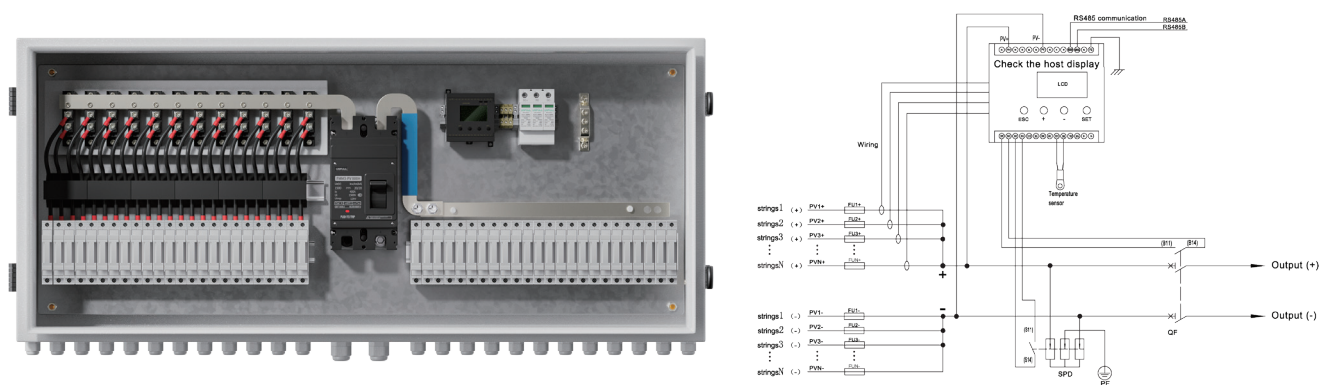
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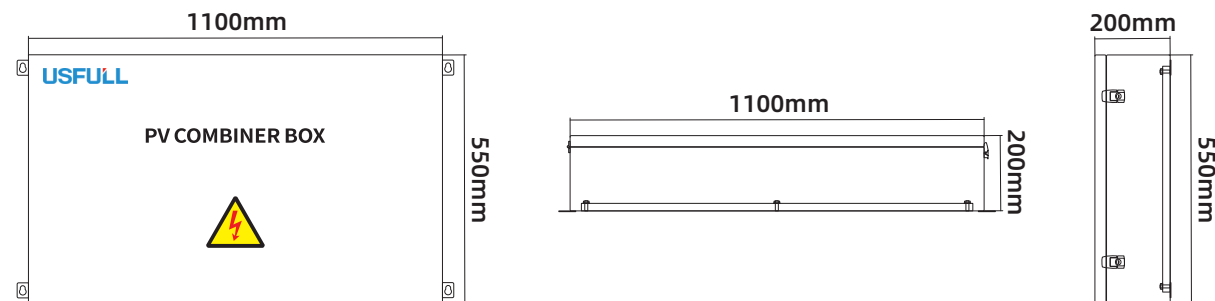
Product Dimension Drawing(mm)



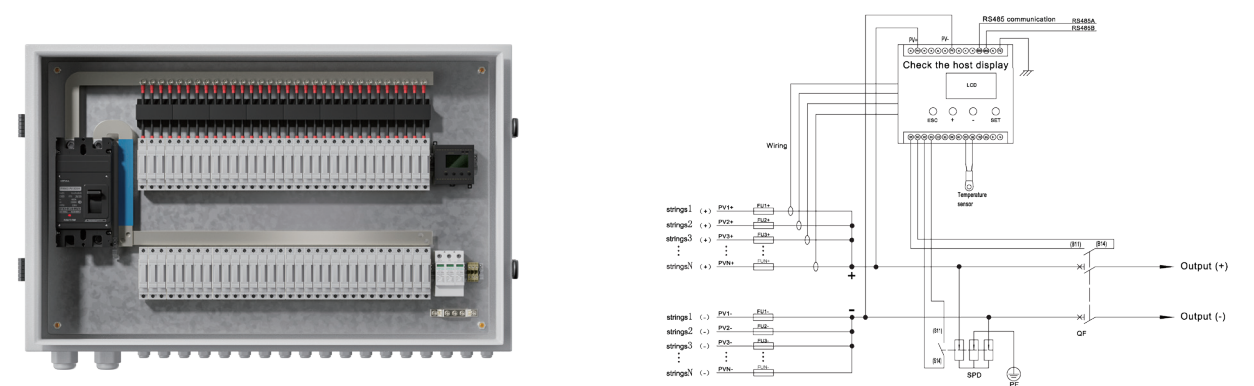
FUCB-HD24(35)/1Z



Product Dimension Drawing(mm)



FUCB-HD32(35)/1Z



Product Dimension Drawing(mm)

