

PV Lightning Protection Box LQX-C Series



DC500V~1200V 16~125A input1~6 output1~6

CNLONQ's PV Lightning Protection box features a 1~5in (1~5 PV strings) 1~5out (1~5 inverter strings) design. Equipped with a rugged IP65-rated enclosure, it integrates circuit breakers(16~125A), and surge protection devices to provide comprehensive protection for solar PV systems rated below 500V/600V/1000V. This equipment performs critical circuit aggregation and disconnect functions, effectively resisting overloads, short circuits, and lightning surge impacts

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IP65 outdoor waterproof and sun resistant UV-resistant
- 

Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

PC housing, Ik08 impact resistance, flame retardant, corrosion resistant
- 

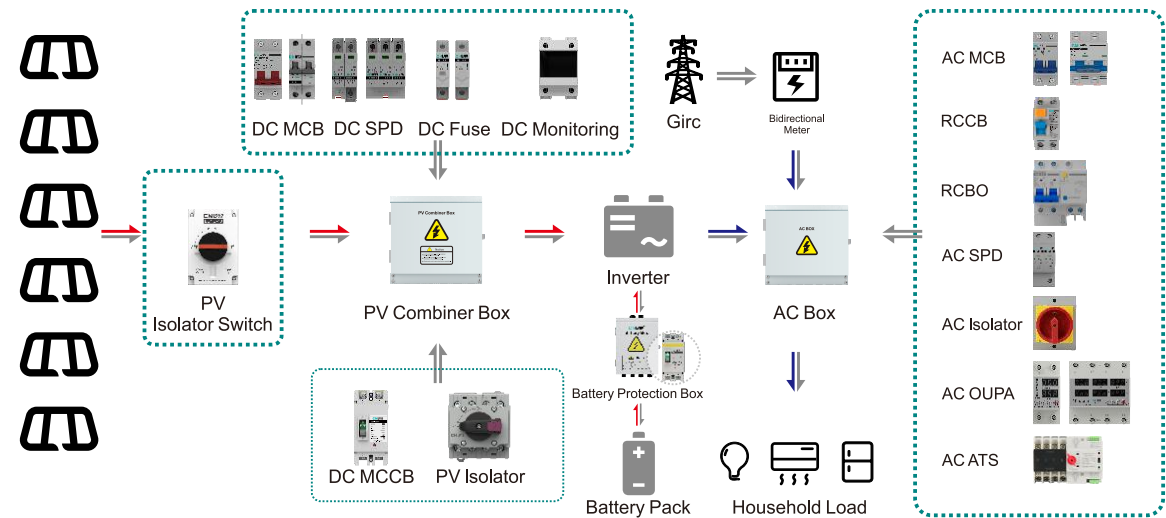
OEM/ODM Free Customization for PV Products

Company Profile

Wenzhou Longqi New Energy Co., Ltd. (Brand: **CNLONQ**)

Founded In 2010 And Headquartered In Yueqing, Wenzhou—China'S Electrical Capital—Wenzhou Longqi New Energy Co., Ltd. Is A Leading Innovator In Photovoltaic System Components And Electrical Protection Equipment. We Specialize In Designing, Manufacturing, And Globally Distributing High-Performance Products Essential For Efficient, Safe Solar Power Generation Systems.

The Company'S Main Factory Covers **10,000m²** With An Additional **2,500m²** Of Warehouse Space. We Support Oem/Odm And Custom Junction Box Solutions, Holding Over **100 Project Certifications And Patents With A Team Of More Than 50 Technical Personnel**. Driven By Innovation And Stringent Quality Control, We Welcome Your Partnership In Building A Cleaner Energy Future Together.



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LQX-C1/1

CE



IEC

IP65

Lightning Protection Box

DC 500/600V 1 in 1 out



LQX-C1/1DC500VBS



LQX-C1/1DC600VLS



IP65 outdoor waterproof and sun resistant
UV-resistant



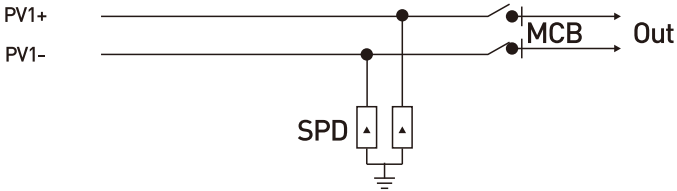
Short-circuit protection, overload protection, lightning protection, Isolation circuit



PC housing, IK08 impact resistance, flame retardant, corrosion resistant

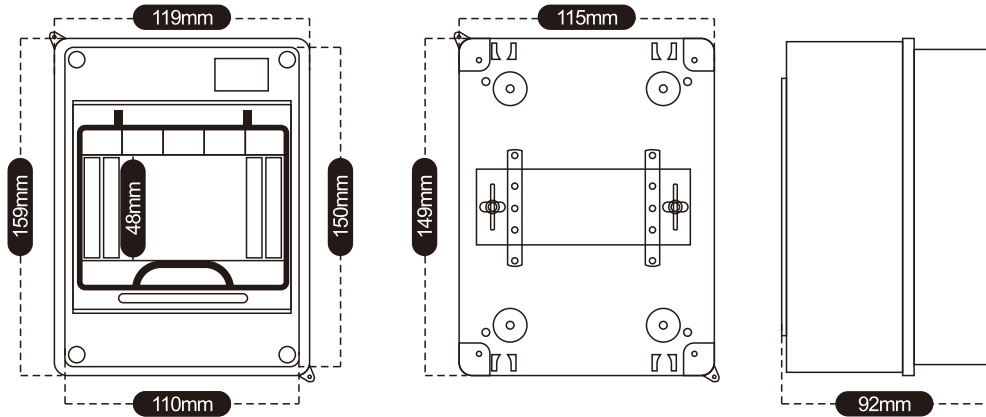


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C1/1DC500VBS	LQX-C1/1DC600VLS
String	1 in 1 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	159*119*92mm	

MCB		SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C2/2

CE IEC IP65

Lightning Protection Box

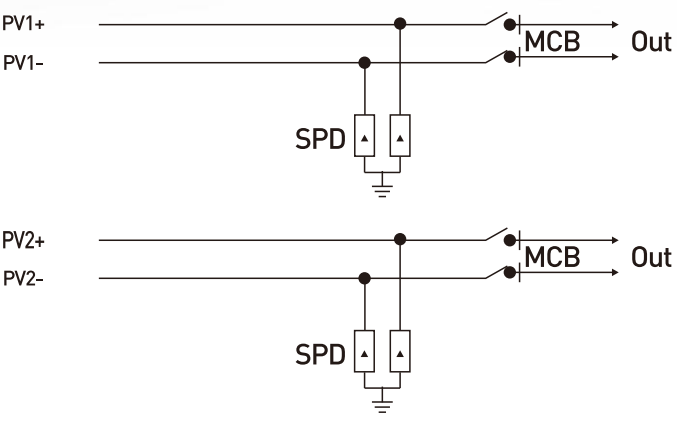
DC 500/600V 2 in 2 out



LQX-C2/2DC500VBS

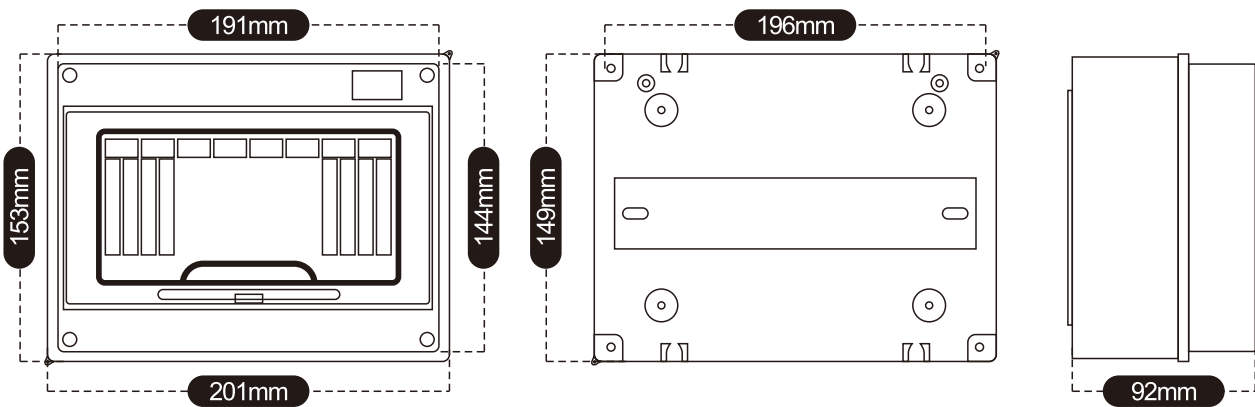
LQX-C2/2DC600VLS

-  IP65 outdoor waterproof and sun resistant UV-resistant
-  Short-circuit protection, overload protection, lightning protection, Isolation circuit
-  PC housing, IK08 impact resistance, flame retardant, corrosion resistant
-  OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C2/2DC500VBS	LQX-C2/2DC600VLS
String	2 in 2 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	153*201*92mm(10~63A), 195*254*105mm(80~125A)	

	MCB	SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C3/3

CE ISO 9001 IEC IP65

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Lightning Protection Box

DC 500/600V 3 in 3 out



LQX-C3/3DC500VBS

LQX-C3/3DC600VLS

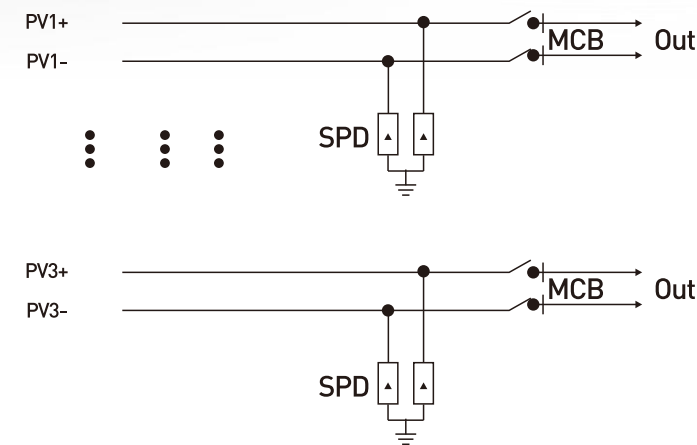
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IP65 outdoor waterproof and sun resistant UV-resistant
- 

Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

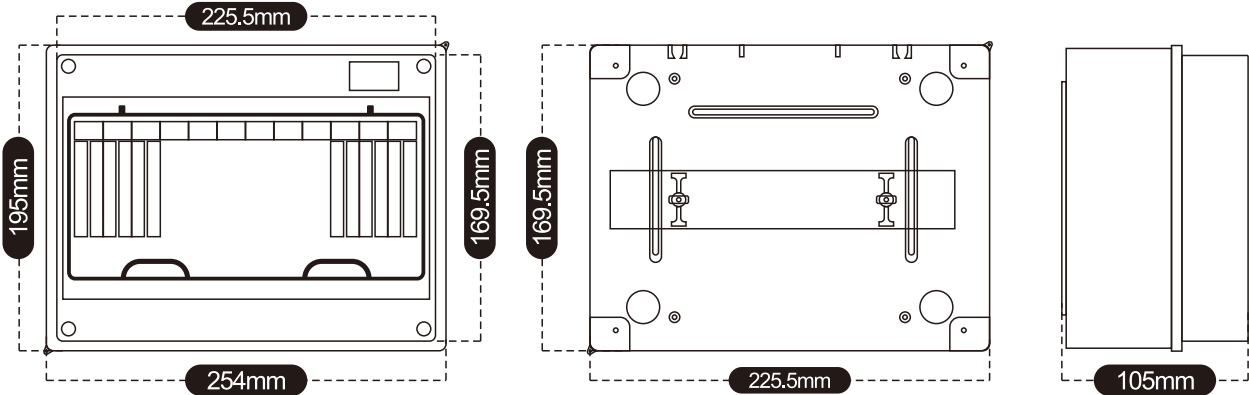
PC housing, IK08 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C3/3DC500VBS	LQX-C3/3DC600VLS
String	3 in 3 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	195*254*105mm(10~63A), 195*305*105mm(80~125A)	

MCB		SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C4/4

CE IEC IP65

Lightning Protection Box

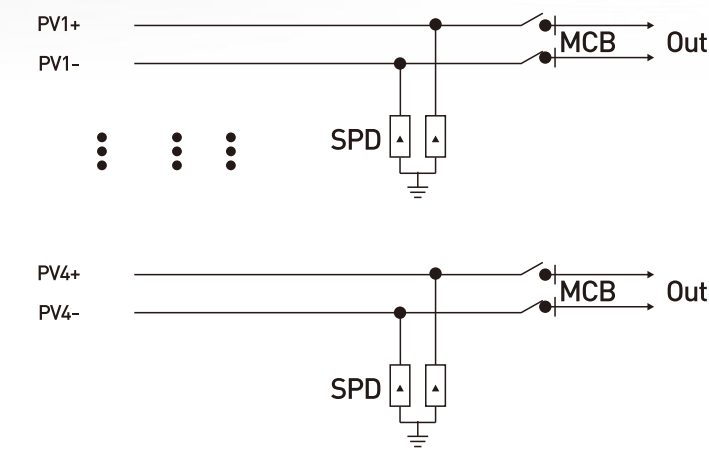
DC 500/600V 4 in 4 out



LQX-C4/4DC500VBS

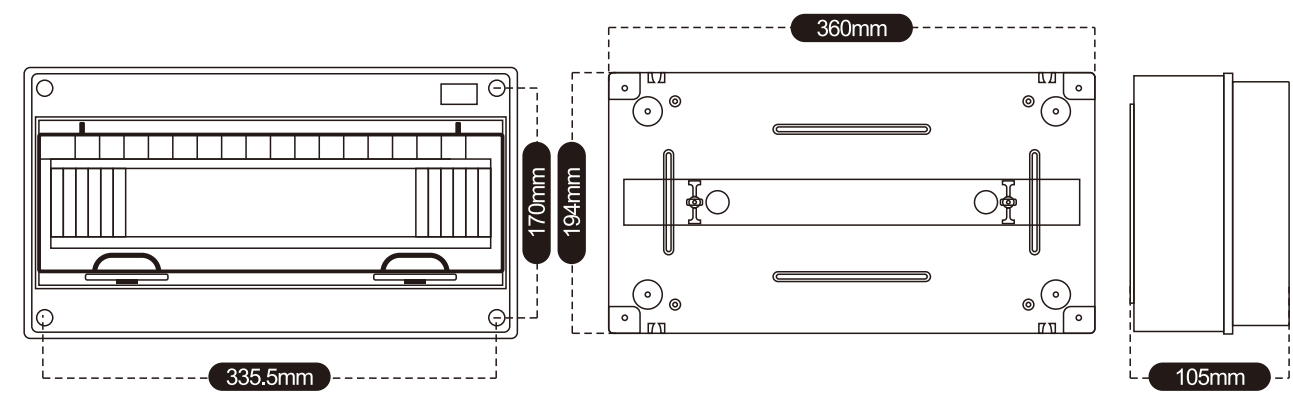
LQX-C4/4DC600VLS

-  IP65 outdoor waterproof and sun resistant UV-resistant
-  Short-circuit protection, overload protection, lightning protection, Isolation circuit
-  PC housing, IK08 impact resistance, flame retardant, corrosion resistant
-  OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C4/4DC500VBS	LQX-C4/4DC600VLS
String	4 in 4 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	194*360*105mm(10~63A), 357*271*110mm(80~125A)	

MCB		SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C5/5

CE

IEC

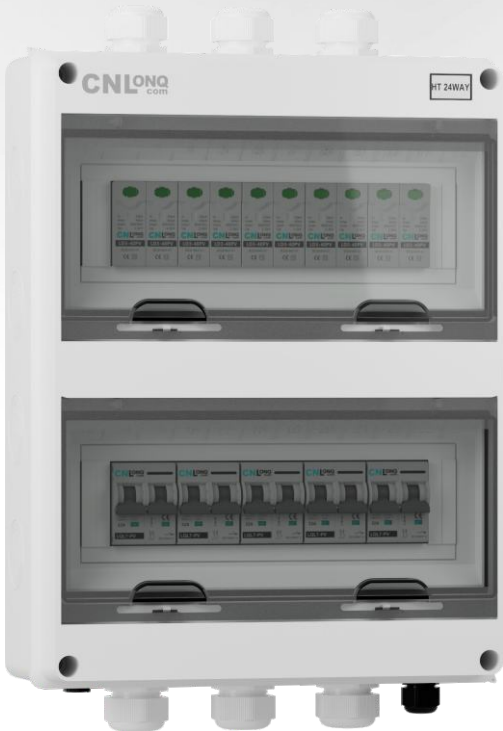
IP65

Lightning Protection Box

DC 500/600V 5 in 5 out

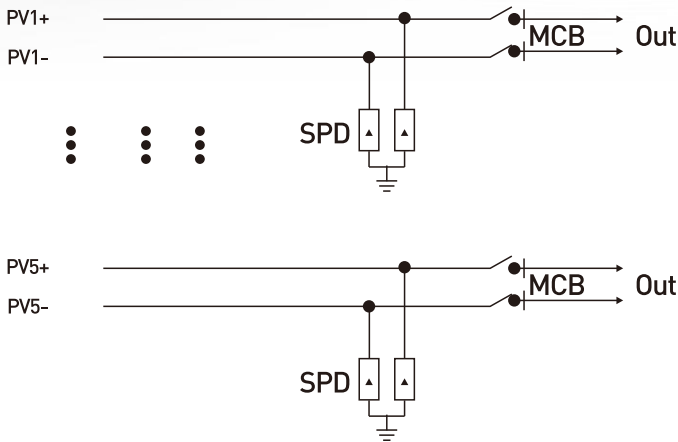


LQX-C5/5DC500VBS



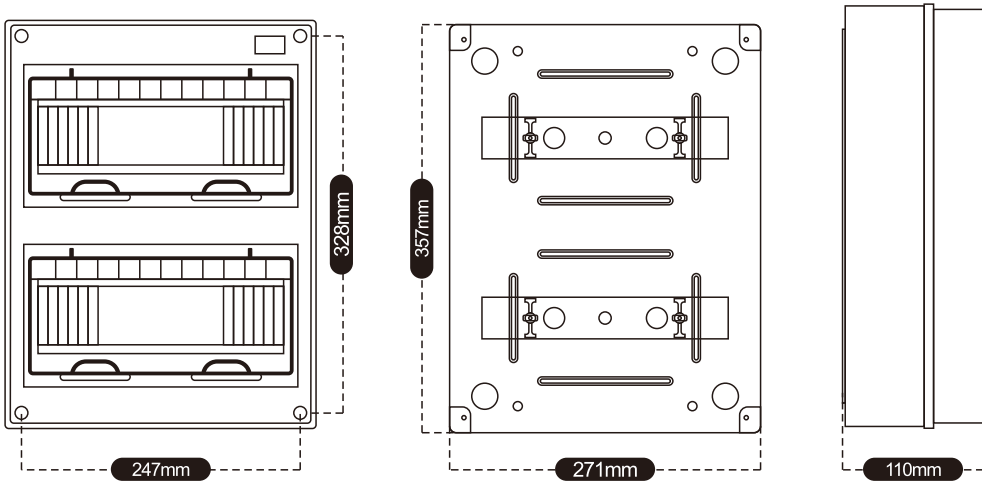
LQX-C5/5DC600VLS

- IP65 outdoor waterproof and sun resistant
UV-resistant
- Short-circuit protection, overload protection, lightning protection, Isolation circuit
- PC housing, IK08 impact resistance, flame retardant, corrosion resistant
- OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C5/5DC500VBS	LQX-C5/5DC600VLS
String	5 in 5 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~63	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	357*271*110mm	

MCB		SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C6/6

CE  IEC IP65

Lightning Protection Box

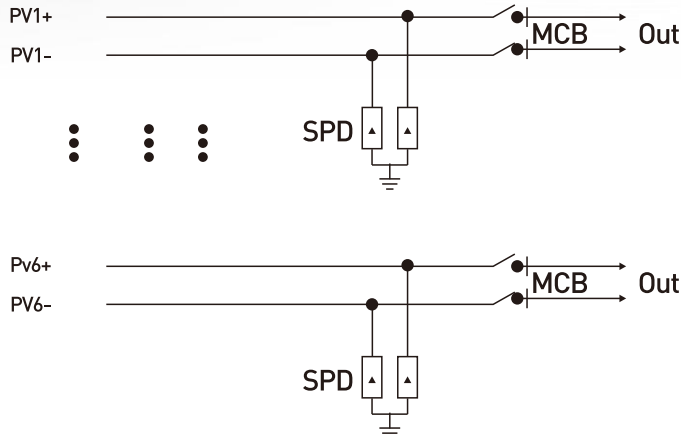
DC 500/600V 6 in 6 out



LQX-C6/6DC500VBS

LQX-C6/6DC600VLS

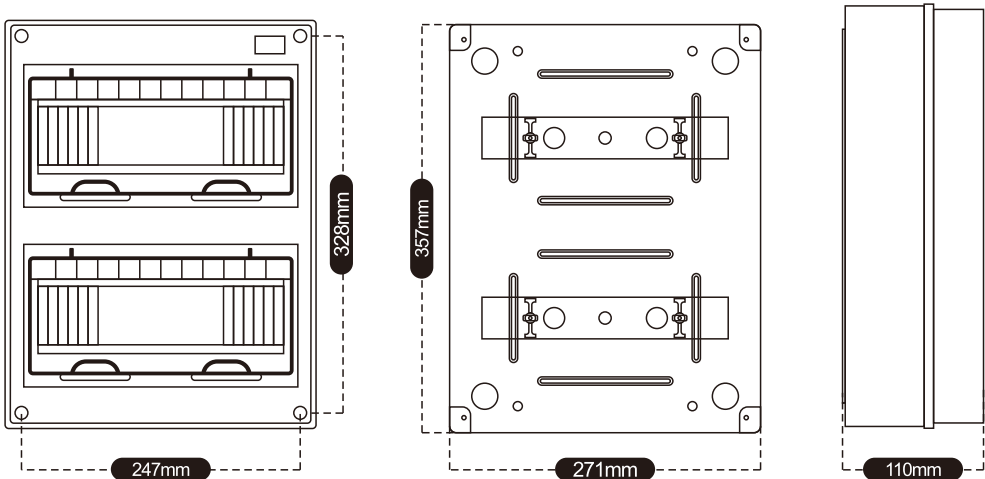
-  IP65 outdoor waterproof and sun resistant UV-resistant
-  Short-circuit protection, overload protection, lightning protection, Isolation circuit
-  PC housing, IK08 impact resistance, flame retardant, corrosion resistant
-  OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

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Product Dimension Drawing (mm)



Technical data		
Model	LQX-C6/6DC500VBS	LQX-C6/6DC600VLS
String	6 in 6 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~63	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	357*271*110mm	

MCB		SPD	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600
Ui (V)	DC1000/1200	In (8/20)us (kA)	20
Rated Current In(A)	16/20/25/32/40/50/63	I _{max} (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C1/1

CE



IEC

IP65

Lightning Protection Box

DC 1000V 1 in 1 out



LQX-C1/1DC1000VBS

LQX-C1/1DC1000VLS

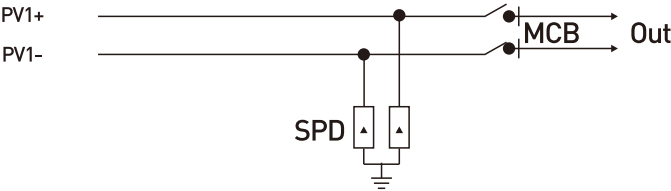
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IP65 outdoor waterproof and sun resistant UV-resistant
- 

Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

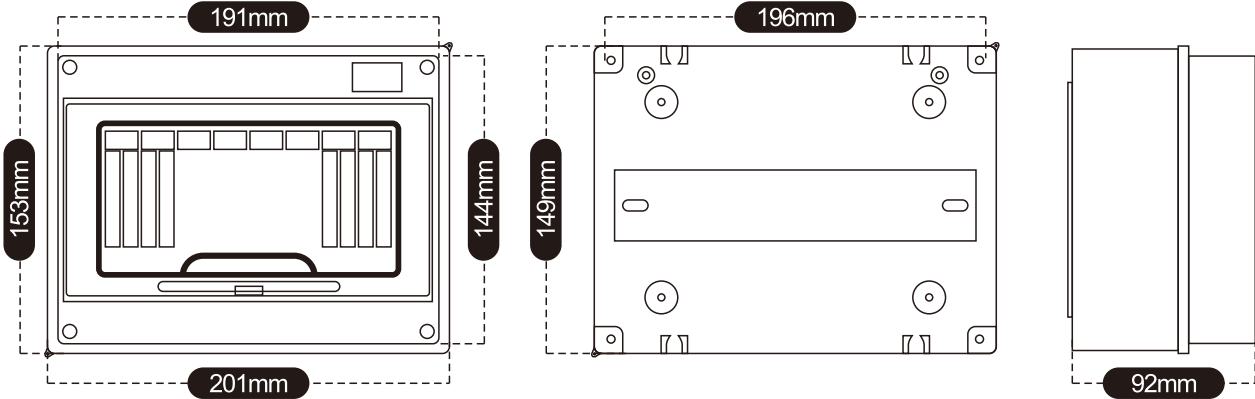
PC housing, IK08 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C1/1DC1000VBS	LQX-C1/1DC1000VLS
String	1 in 1 out	
Rated Voltage Ue (V)	DC 1000	
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	153*201*92mm	

MCB	B1	L7	SPD	
Rated Voltage Ue (V)	DC1000	DC1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	DC1200	In (8/20)us (kA)	20
Rated Current In(A)	16~125	16~63	Imax (8/20)us (kA)	40
Icu (kA)	6	6	Protection Level (kV)	3.6
standard	IEC 60947-2	IEC 60947-2	standard	IEC 61643-31

LQX-C2/2

CE  IEC IP65

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Lightning Protection Box

DC 1000V 2 in 2 out



LQX-C2/2DC1000VBS

LQX-C2/2DC1000VLS

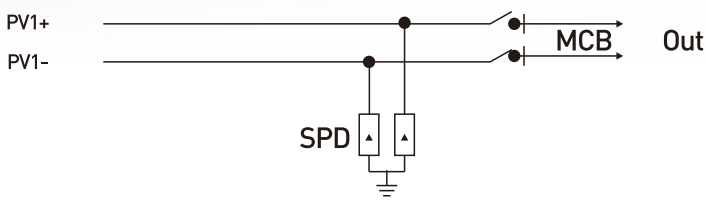
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IP65 outdoor waterproof and sun resistant UV-resistant
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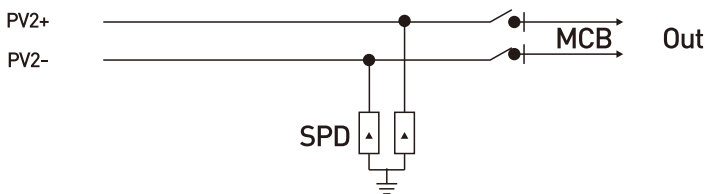
Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

PC housing, IK08 impact resistance, flame retardant, corrosion resistant
- 

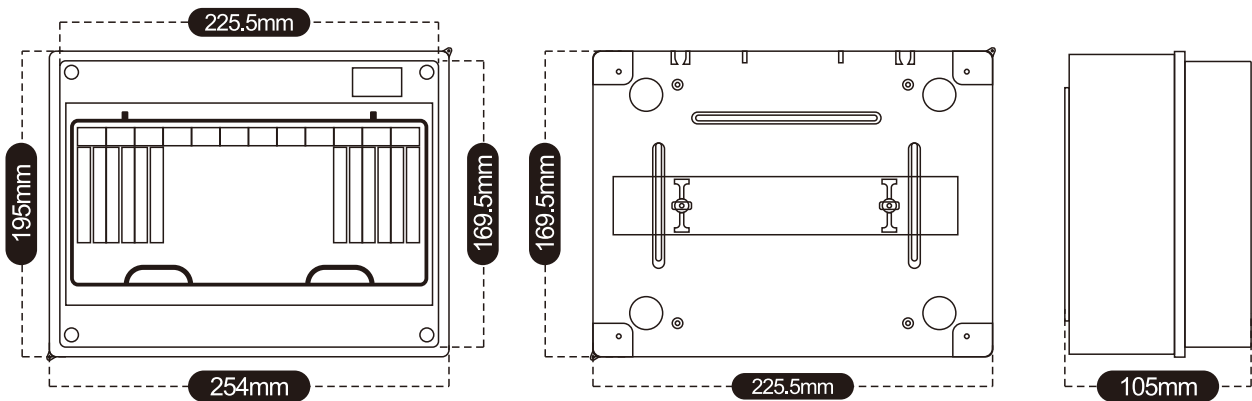
OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device



Product Dimension Drawing (mm)



Technical data		
Model	LQX-C2/2DC1000VBS	LQX-C2/2DC1000VLS
String	2 in 2 out	
Rated Voltage Ue (V)	DC 1000	
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	195*254*105mm(10~63A), 195*305*105mm(80~125A)	

MCB		B1	L7	SPD	
Rated Voltage Ue (V)	DC1000	DC1200	Rated Voltage Ue (V)	DC1000	
Ui (V)	DC1000	DC1200	In (8/20)us (kA)	20	
Rated Current In(A)	16~125	16~63	Imax (8/20)us (kA)	40	
Icu (kA)	6	6	Protection Level (kV)	3.6	
standard	IEC 60947-2	IEC 60947-2	standard	IEC 61643-31	

LQX-C3/3

CE IEC IP65

Lightning Protection Box

DC 1000V 3 in 3 out



LQX-C3/3DC1000VBS

LQX-C3/3DC1000VLS

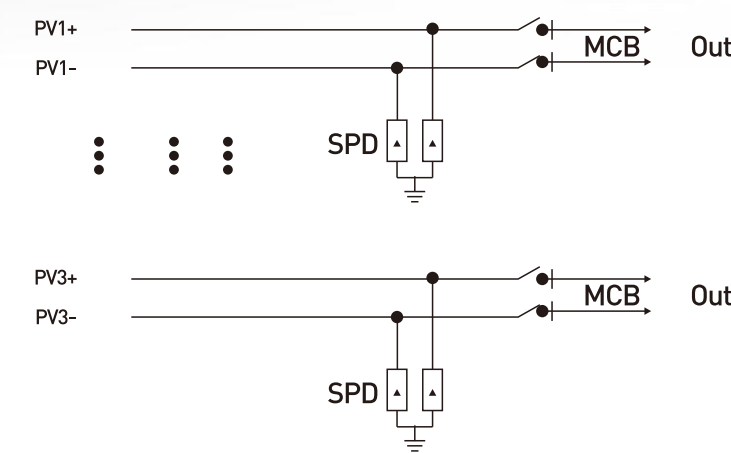
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IP65 outdoor waterproof and sun resistant UV-resistant
- 

Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

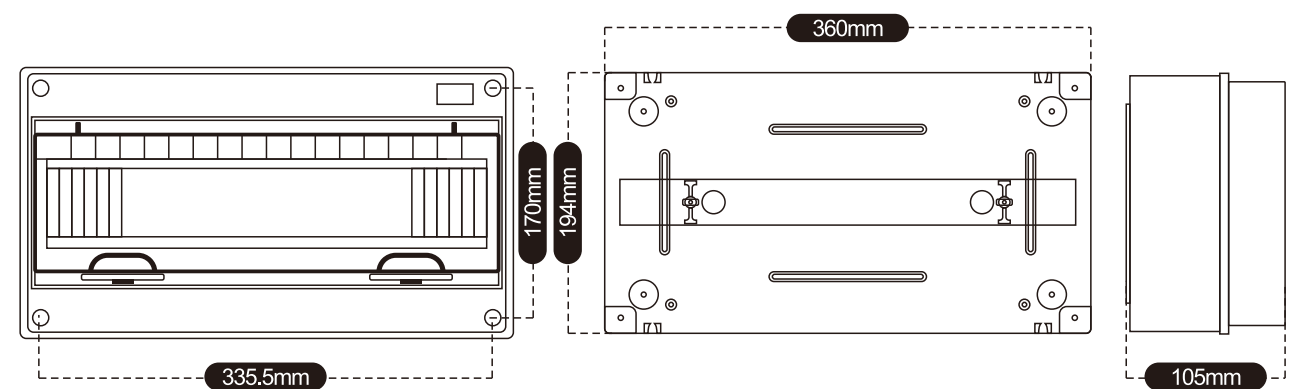
PC housing, IK08 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C3/3DC1000VBS	LQX-C3/3DC1000VLS
String	3 in 3 out	
Rated Voltage Ue (V)	DC 1000	
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	194*360*105mm(10~63A), 357*271*110mm(80~125A)	

MCB		B1	L7	SPD	
Rated Voltage Ue (V)	DC1000	DC1200	DC1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	DC1200	DC1200	In (8/20)us (kA)	20
Rated Current In(A)	16~125	16~63	16~63	I _{max} (8/20)us (kA)	40
Icu (kA)	6	6	6	Protection Level (kV)	3.6
standard	IEC 60947-2	IEC 60947-2	IEC 60947-2	standard	IEC 61643-31

LQX-C4/4

CE ISO IEC IP65

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Lightning Protection Box

DC 1000V 4 in 4 out



LQX-C4/4DC1000VBS



LQX-C4/4DC1000VLS



IP65 outdoor waterproof and sun resistant UV-resistant



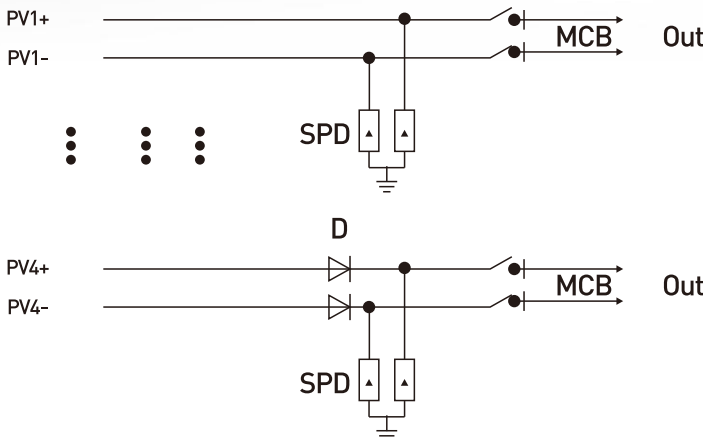
Short-circuit protection, overload protection, lightning protection, Isolation circuit



PC housing, IK08 impact resistance, flame retardant, corrosion resistant

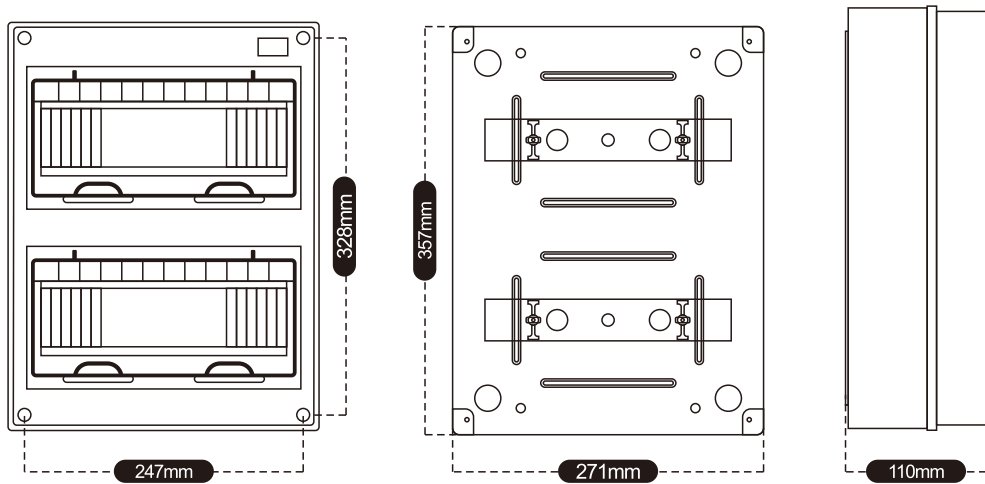


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-C4/4DC1000VBS	LQX-C1/1DC1000VLS
String	4 in 4 out	
Rated Voltage Ue (V)	DC 1000	
Rated current In(A)	16~63	16~63
Quality Certificate	CE, ISO9001, RoHS, IP65	
Protection Level	IP65	
Impact Level	IK08	
Box Material	PC	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	357*271*110mm	

MCB		B1	L7	SPD	
Rated Voltage Ue (V)	DC1000	DC1200	DC1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	DC1200	DC1200	In (8/20)us (kA)	20
Rated Current In(A)	16~125	16~63	16~63	I _{max} (8/20)us (kA)	40
Icu (kA)	6	6	6	Protection Level (kV)	3.6
standard	IEC 60947-2	IEC 60947-2	IEC 60947-2	standard	IEC 61643-31