

PV Lightning Protection Box LQX-C Series



DC500V~1200V 16~125A input 1~5 output 1~5

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



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



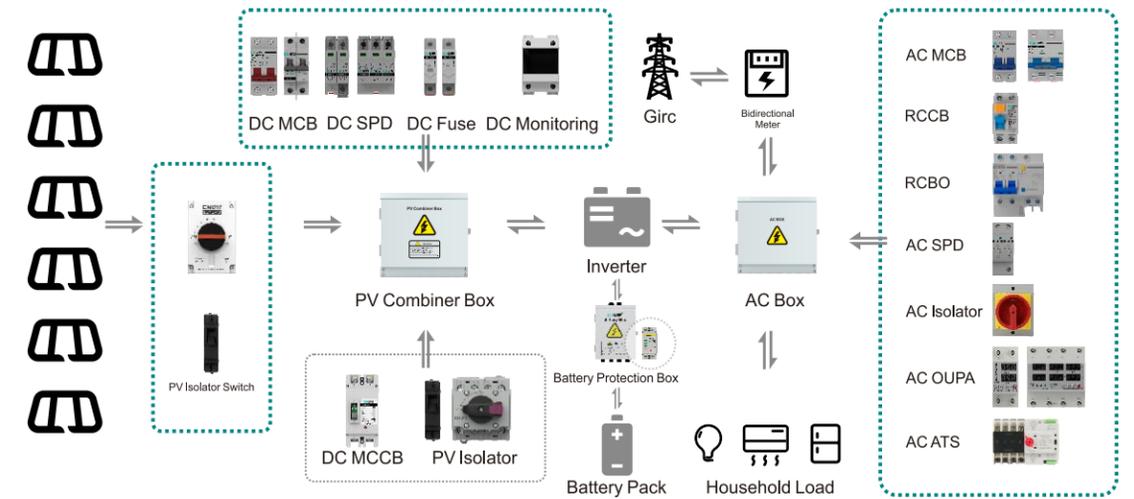
OEM/ODM Free Customization for PV Products

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  RoHS  IP65

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Lightning Protection Box

DC 500/600V 1 in 1 out



LQX-C1/1DC500VBS



LQX-C1/1DC600VLS



IP65 outdoor waterproof and sun resistant UV-resistant



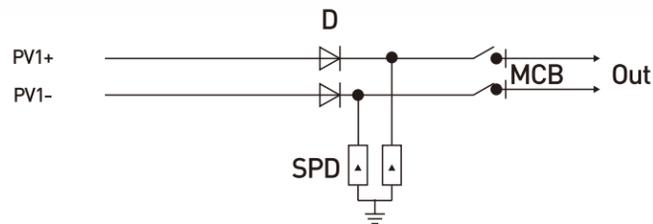
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

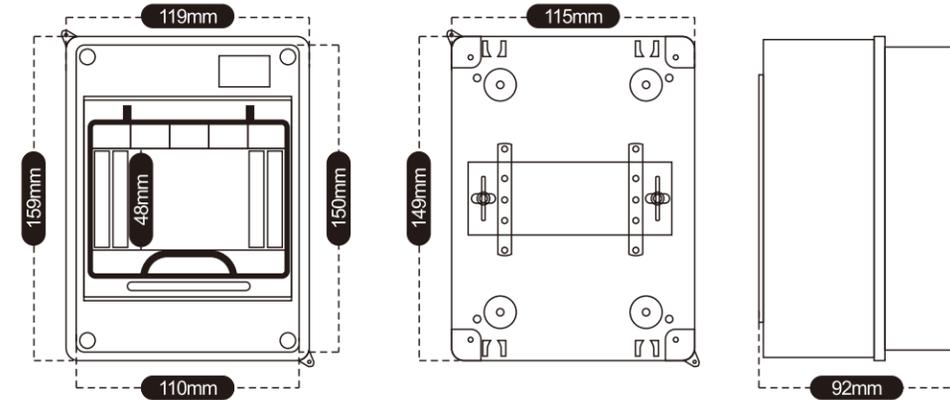


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

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 ISO COMPASS R6HS IEC IP65

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Lightning Protection Box

DC 500/600V 2 in 2 out



LQX-C2/2DC500VBS

LQX-C2/2DC600VLS



IP65 outdoor waterproof and sun resistant UV-resistant



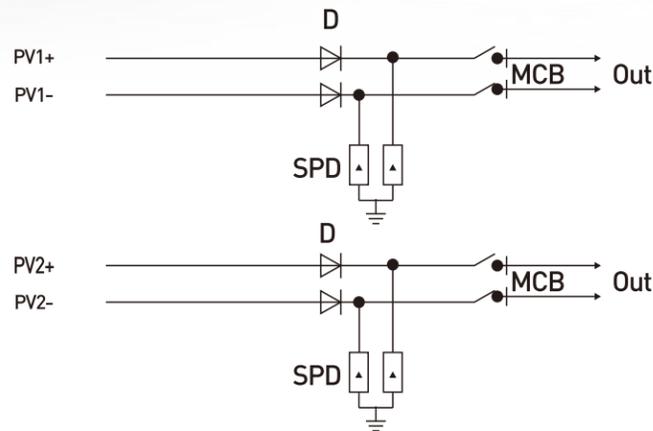
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

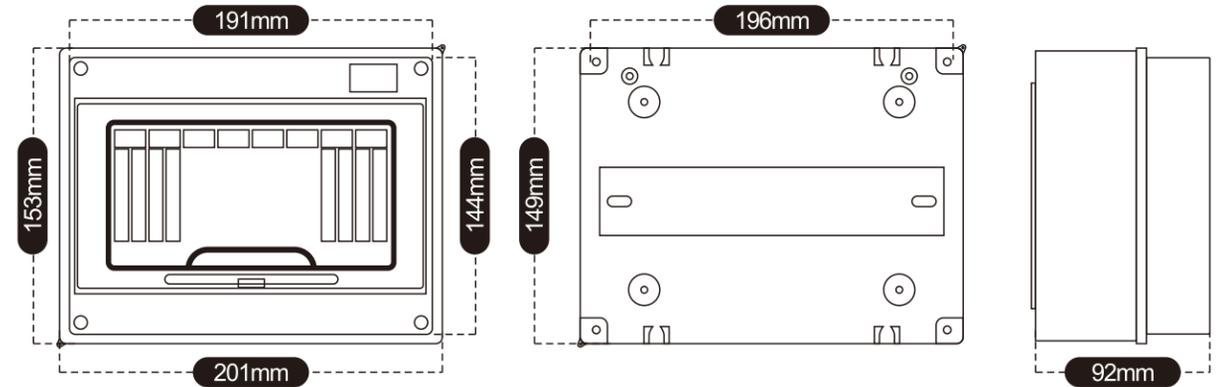


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

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

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Lightning Protection Box

DC 500/600V 3 in 3 out



LQX-C3/3DC500VBS

LQX-C3/3DC600VLS



IP65 outdoor waterproof and sun resistant UV-resistant



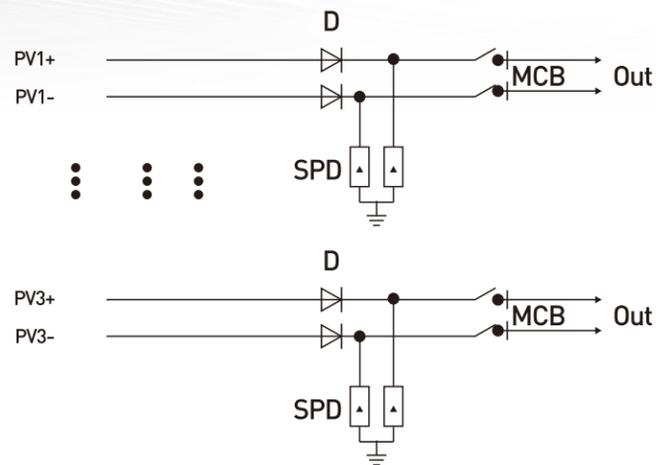
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

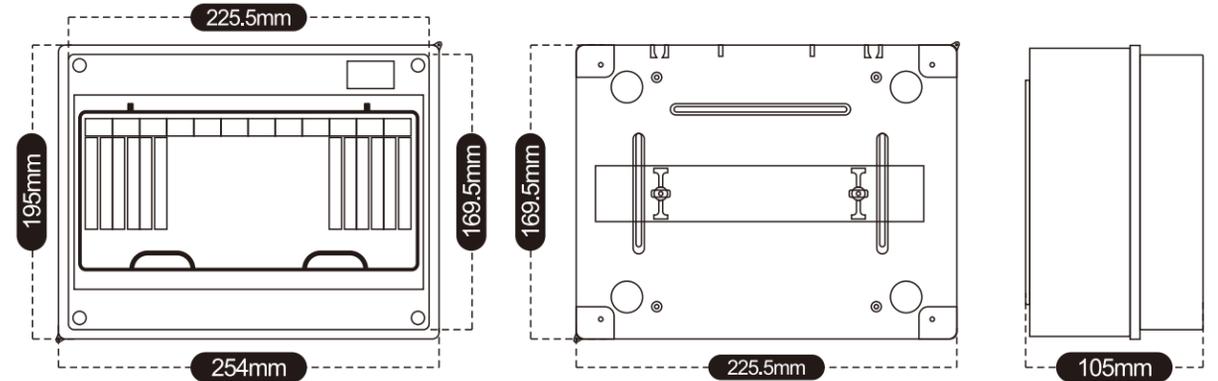


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

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

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Lightning Protection Box

DC 500/600V 4 in 4 out



LQX-C4/4DC500VBS

LQX-C4/4DC600VLS



IP65 outdoor waterproof and sun resistant UV-resistant



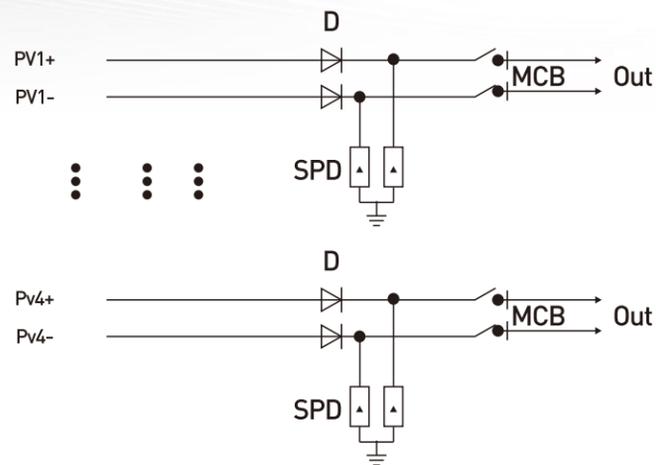
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

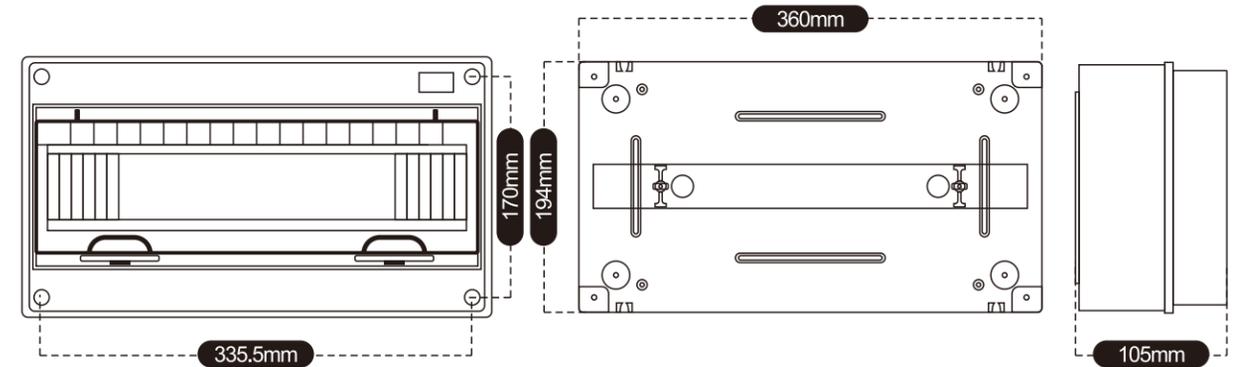


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

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

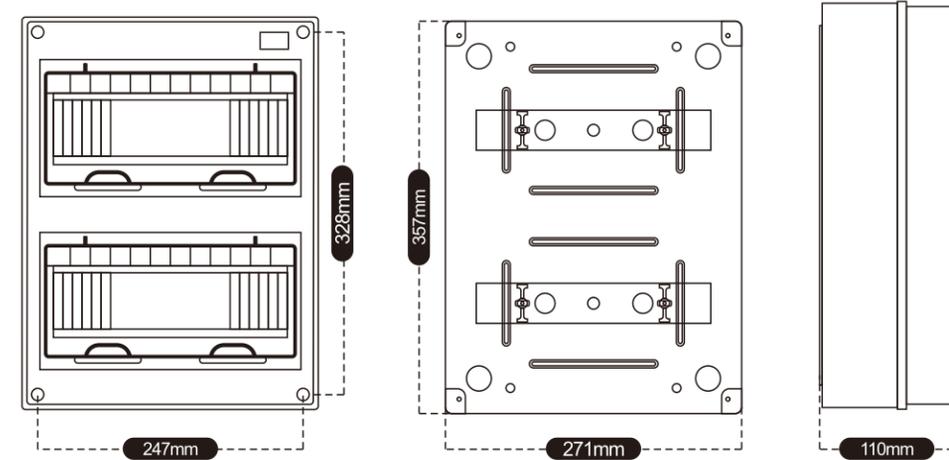
CE ISO COMPASS R6HS IEC IP65

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Lightning Protection Box

DC 500/600V 5 in 5 out

Product Dimension Drawing (mm)



LQX-C5/5DC500VBS

LQX-C5/5DC600VLS



IP65 outdoor waterproof and sun resistant UV-resistant



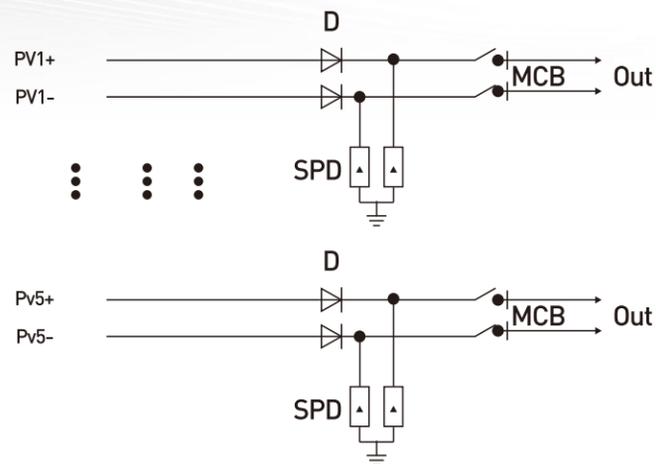
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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



OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

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-C1/1

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Lightning Protection Box

DC 1000V 1 in 1 out



LQX-C1/1DC1000VBS



IP65 outdoor waterproof and sun resistant UV-resistant



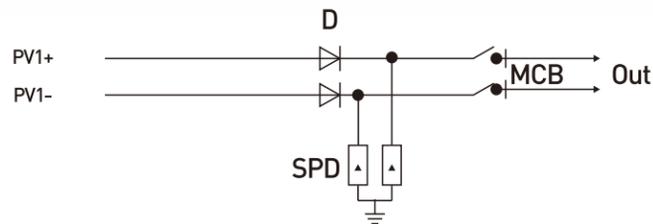
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

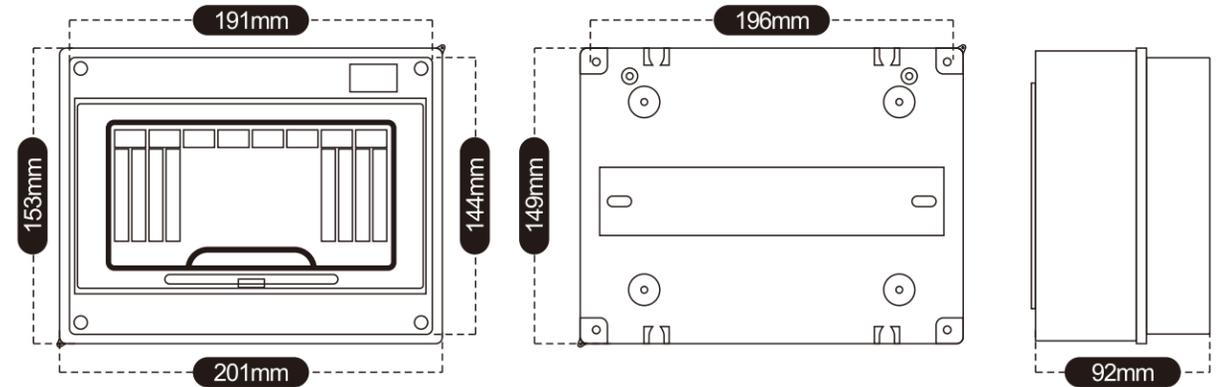


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

Product Dimension Drawing (mm)



Technical data	
Model	LQX-C1/1DC1000VBS
String	1 in 1 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	16~125
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	SPD	
Rated Voltage Ue (V)	DC1000	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	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)	3.6
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C2/2

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Lightning Protection Box

DC 1000V 2 in 2 out



LQX-C2/2DC1000VBS



IP65 outdoor waterproof and sun resistant UV-resistant



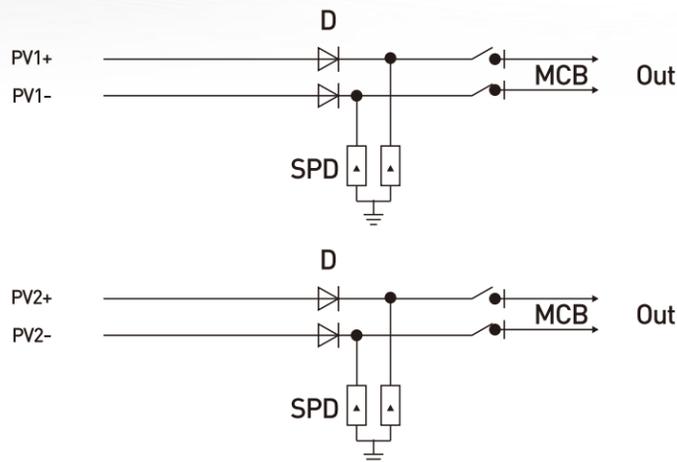
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

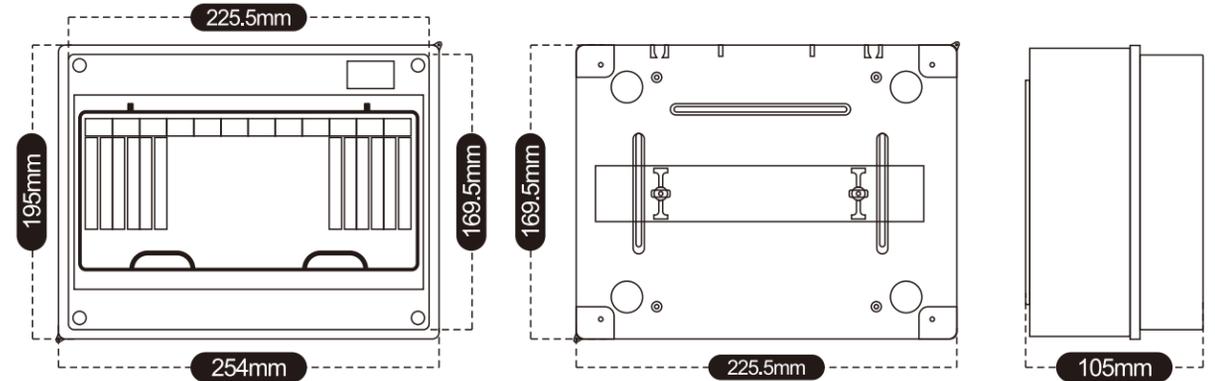


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

Product Dimension Drawing (mm)



Technical data

Model	LQX-C2/2DC1000VBS
String	2 in 2 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	16~125
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)	DC1000	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	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)	3.6
standard	IEC 60947-2	standard	IEC 61643-31

LQX-C3/3

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Lightning Protection Box

DC 1000V 3 in 3 out



LQX-C3/3DC1000VBS



IP65 outdoor waterproof and sun resistant UV-resistant



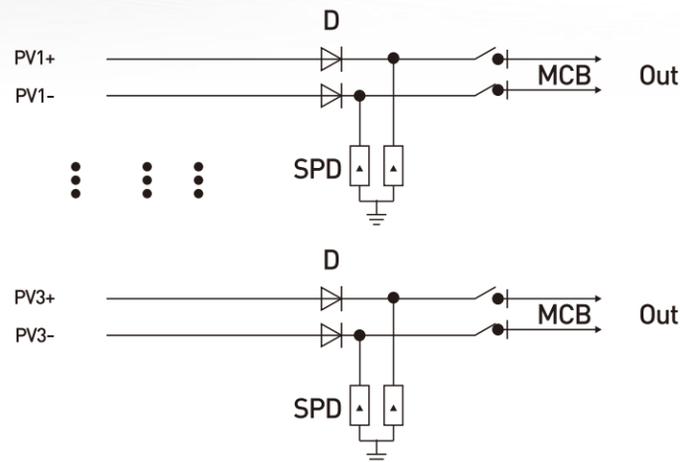
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

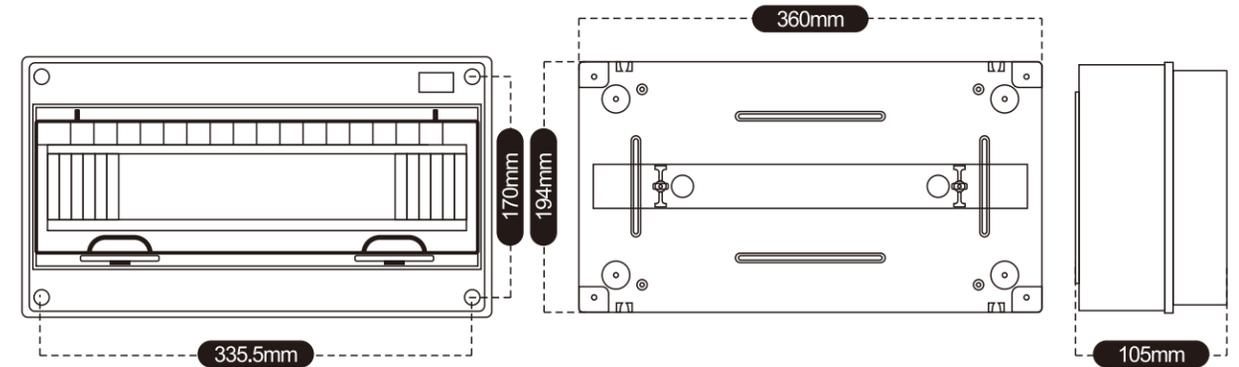


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

Product Dimension Drawing (mm)



Technical data	
Model	LQX-C3/3DC1000VBS
String	3 in 3 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	16~125
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)	DC1000	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	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)	3.6
standard	IEC 60947-2	standard	IEC 61643-31

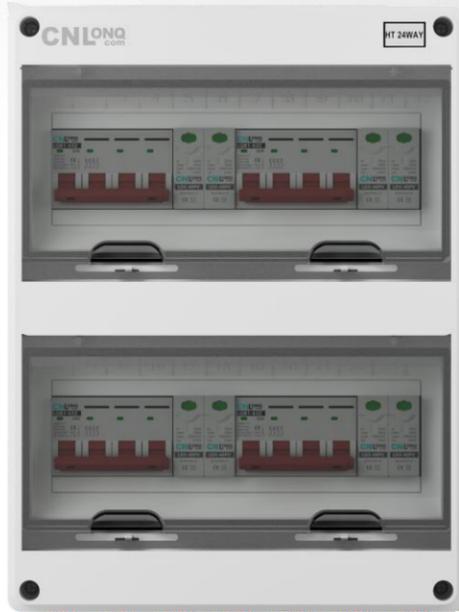
LQX-C4/4

CE ISO COMPASS R6HS IEC IP65

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Lightning Protection Box

DC 1000V 4 in 4 out



LQX-C4/4DC1000VBS



IP65 outdoor waterproof and sun resistant UV-resistant



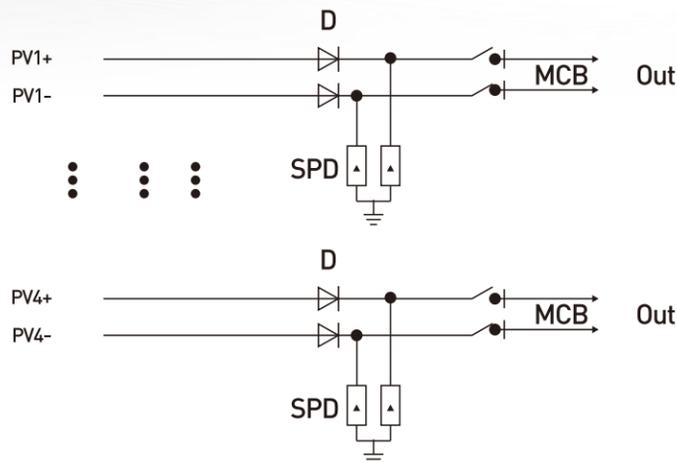
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

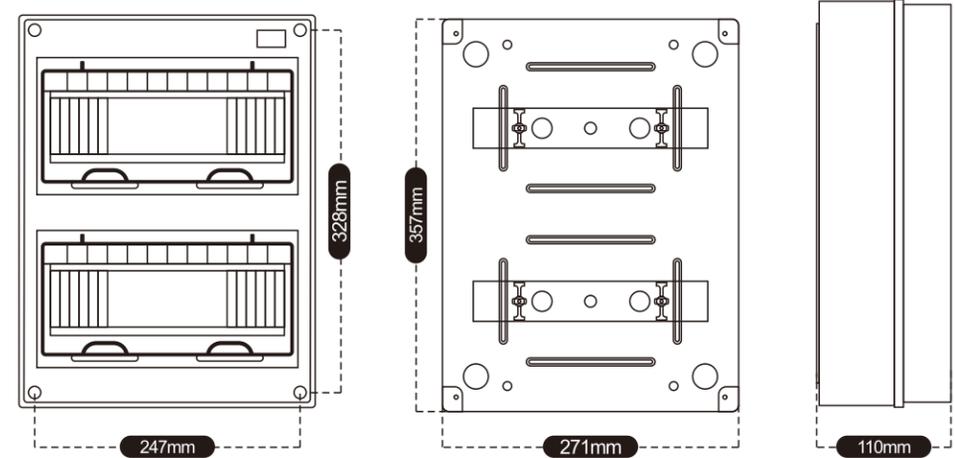


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device
D: Anti-reflection diode (optional)

Product Dimension Drawing (mm)



Technical data

Model	LQX-C4/4DC1000VBS
String	4 in 4 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	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)	DC1000	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000	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)	3.6
standard	IEC 60947-2	standard	IEC 61643-31