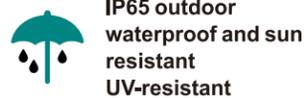


# PV Circuit Breaker Box LQX-C Series



## DC500V~1200V 16~125A input 1~12 output 1~12

CNLONQ's PV circuit breaker box features a 1~12in (1~12 PV strings) 1~12out (1~12 inverter strings) design. Equipped with a rugged IP65-rated enclosure, it integrates circuit breakers (16~125A) or disconnect switch (32, 63A) to provide comprehensive protection for solar PV systems rated below 500V/600V/1000V/1200V. This equipment performs critical circuit aggregation and disconnect functions, effectively resisting overloads and short circuits impacts



IP65 outdoor waterproof and sun resistant UV-resistant



Short-circuit protection, overload protection, Isolation circuit



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



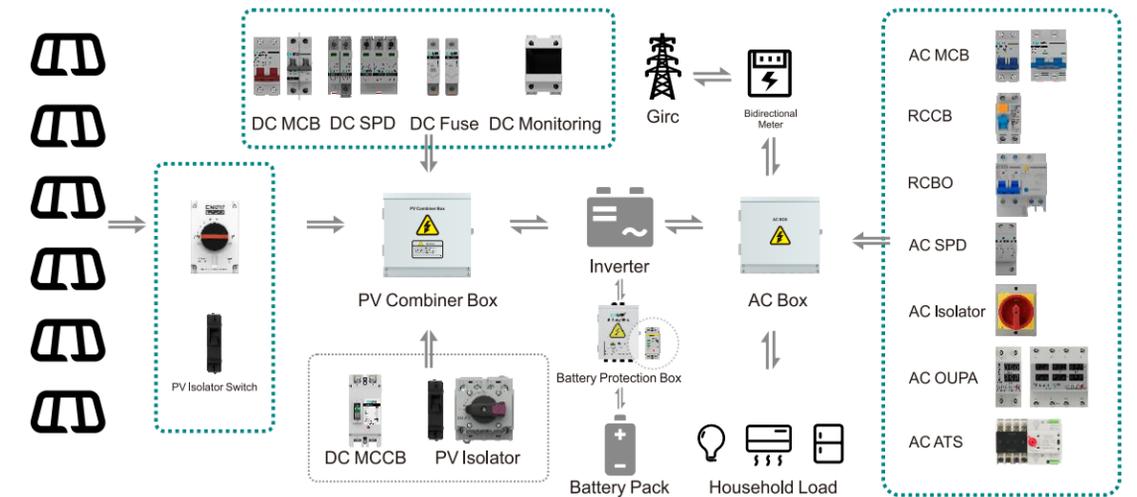
OEM/ODM Free Customization for PV Products

## 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 **10,000m<sup>2</sup>** With An Additional **2,500m<sup>2</sup>** 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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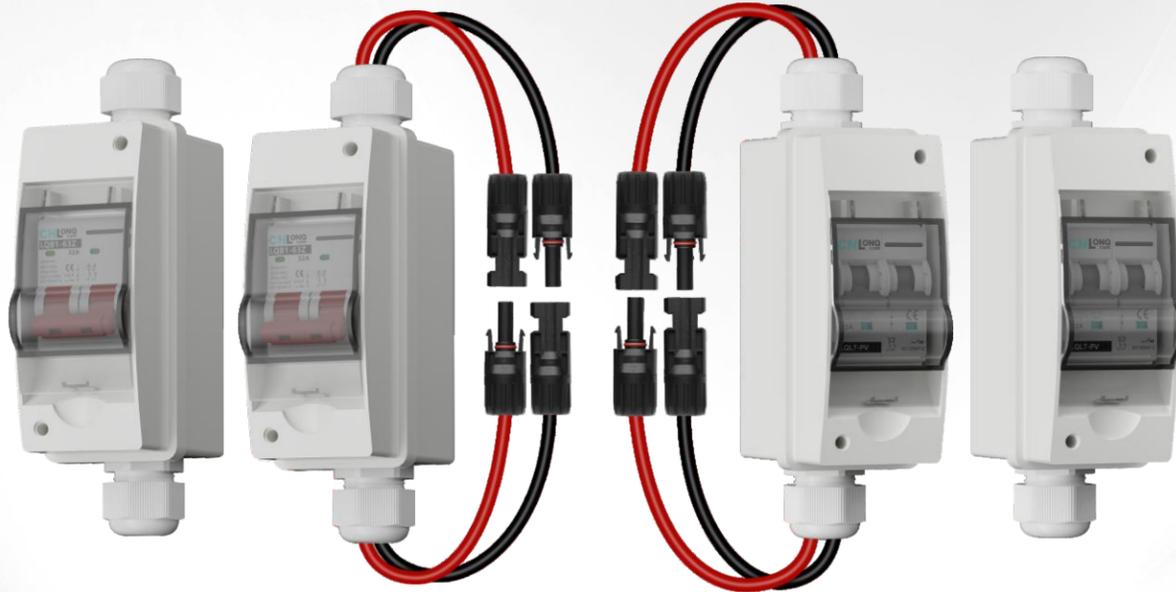
LQX-C1/1

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 500/600V 1 in 1 out



LQX-C1/1DC500VBB

LQX-C1/1DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



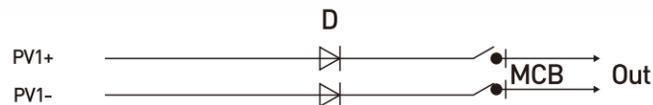
Short-circuit protection, overload protection, Isolation circuit



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

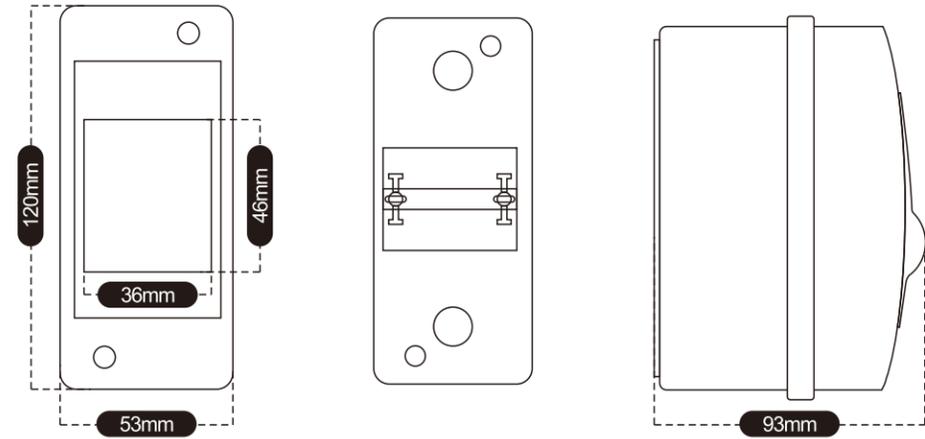


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C1/1DC500VBB	LQX-C1/1DC600VLL
String	1 in 1 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~63	16~63
Quality Certificate	CE, ISO9001, 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)	120*53*93mm	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	DC500	Rated Voltage Ue (V) DC600
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C31/1

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 1 in 1 out



LQX-C31/1DC500VBB

LQX-C31/1DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



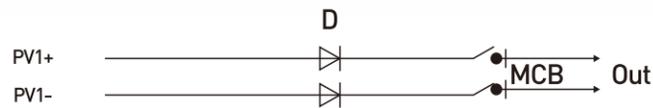
Short-circuit protection, overload protection, Isolation circuit



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

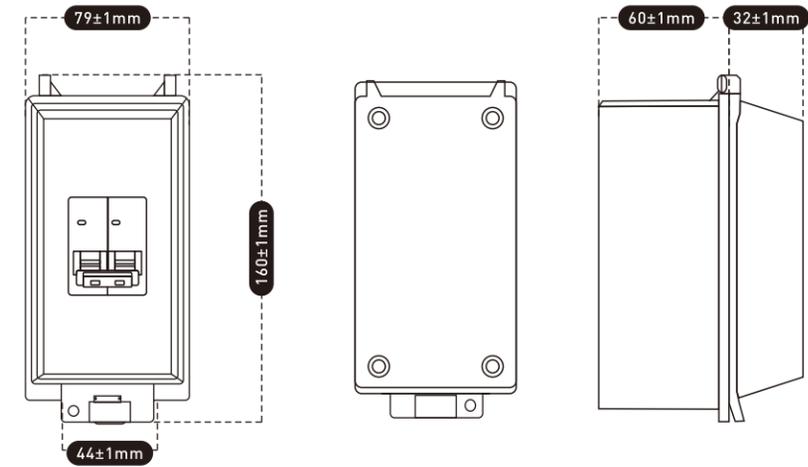


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C31/1DC500VBB	LQX-C31/1DC600VLL
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, 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)	120*53*93mm	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	DC500	Rated Voltage Ue (V) DC600
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C2/2

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 500/600V 2 in 2 out



LQX-C2/2DC500VBB



LQX-C2/2DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



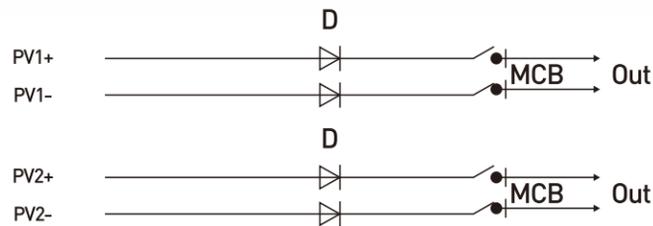
Short-circuit protection, overload protection, Isolation circuit



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

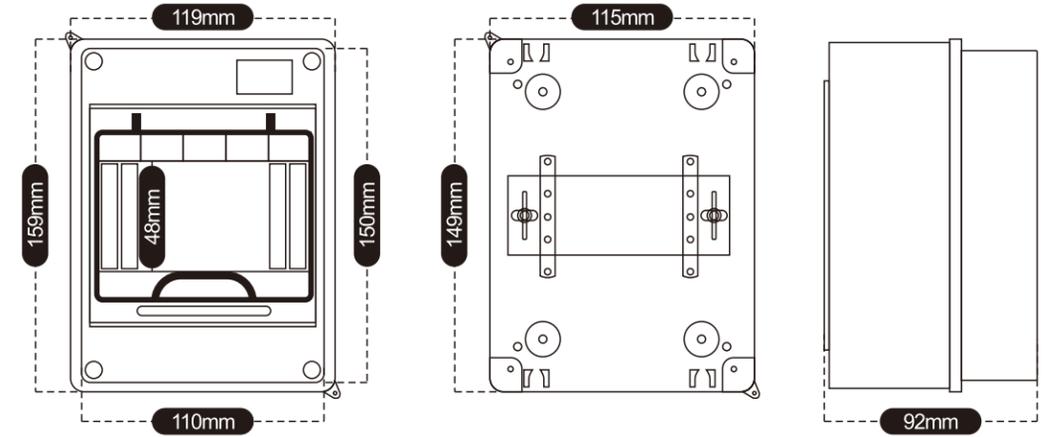


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C2/2DC500VBB	LQX-C2/2DC600VLL
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, 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(16~63A), 153*201*92mm(80~125A)	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	DC500	Rated Voltage Ue (V) DC600
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C3/3

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 3 in 3 out



LQX-C3/3DC500VBB

LQX-C3/3DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



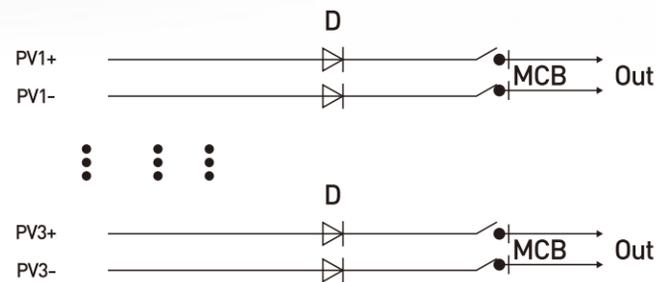
Short-circuit protection, overload protection, Isolation circuit



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

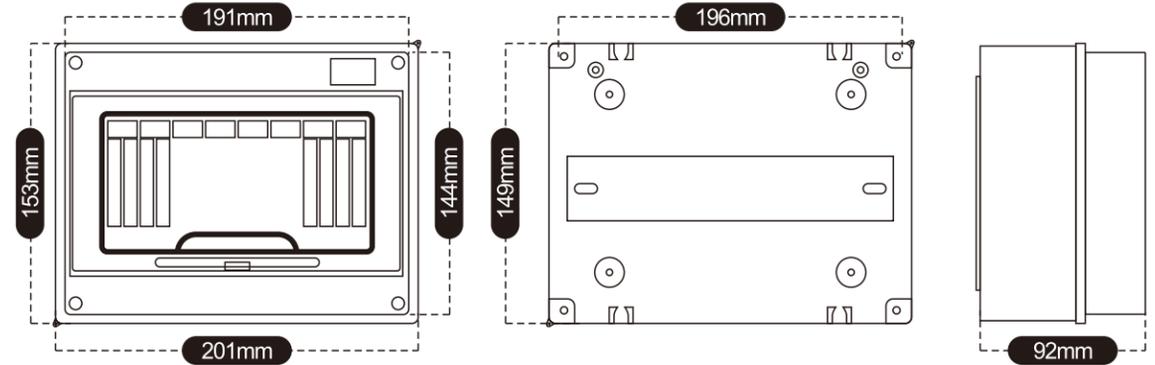


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C3/3DC500VBB	LQX-C3/3DC600VLL
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, 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(16~63A), 195*254*105mm(80~125A)	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	DC500	Rated Voltage Ue (V) DC600
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C4/4

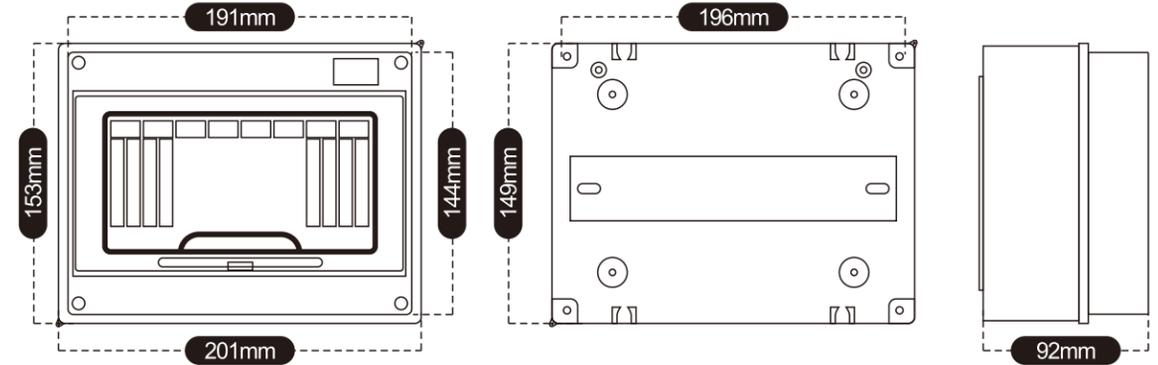
CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 500/600V 4 in 4 out

### Product Dimension Drawing (mm)



LQX-C4/4DC500VBB

LQX-C4/4DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



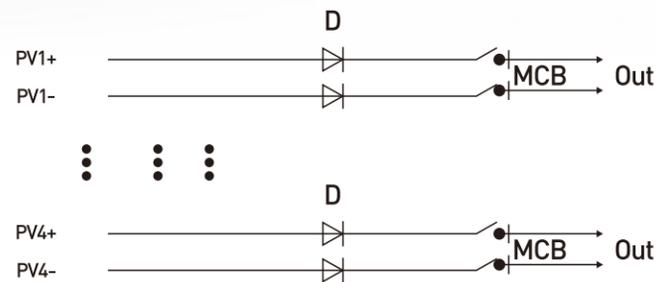
Short-circuit protection, overload protection, Isolation circuit



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



OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

#### Technical data

Model	LQX-C4/4DC500VBB	LQX-C4/4DC600VLL
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, 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(16~63A), 195*254*105mm(80~125A)	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	DC500	Rated Voltage Ue (V) DC600
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C1/1

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 1000/1200V 1 in 1 out



LQX-C1/1DC1000VBB



LQX-C1/1DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



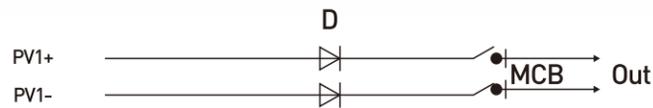
Short-circuit protection, overload protection, Isolation circuit



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

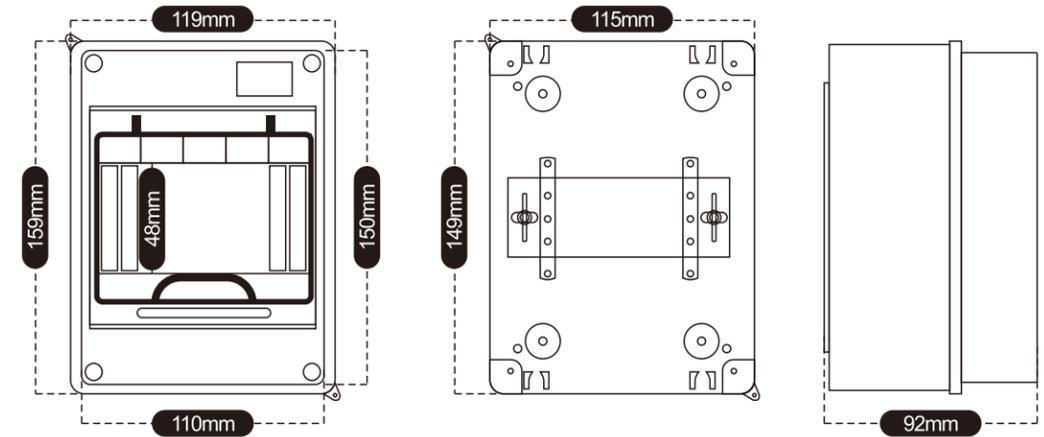


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C1/1DC1000VBB	LQX-C1/1DC1200VLL
String	1 in 1 out	
Rated Voltage Ue (V)	DC 1000	DC 1200
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, 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(16~63A), 153*201*92mm(80~125A)	

	MCB(B1)		MCB(L7)
Rated Voltage Ue (V)	Dc1000	Rated Voltage Ue (V)	Dc1200
Ui (V)	DC1000	Ui (V)	DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A)	16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA)	6
standard	IEC 60947-2	standard	IEC 60947-2

LQX-C2/2

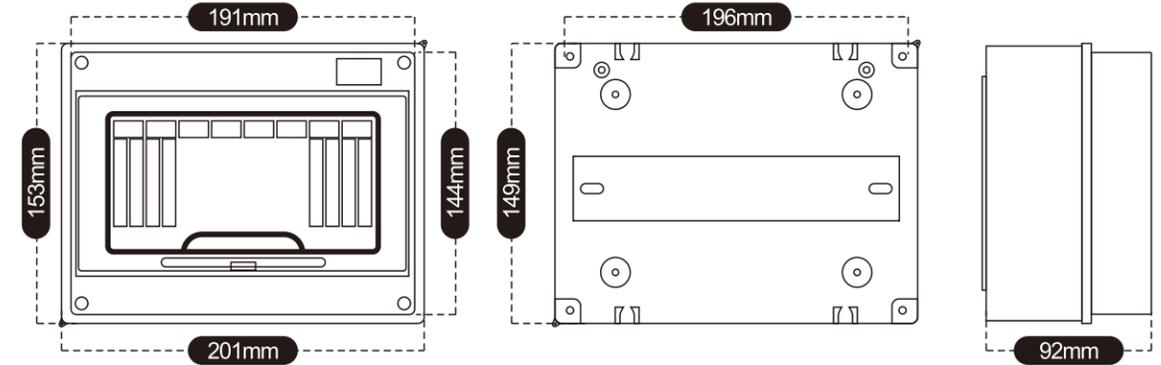
CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 1000/1200V 2 in 2 out

### Product Dimension Drawing (mm)



Technical data		
Model	LQX-C2/2DC1000VBB	LQX-C2/2DC1200VLL
String	2 in 2 out	
Rated Voltage Ue (V)	DC 1000	DC 1200
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, 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(16~63A), 195*254*105mm(80~125A)	

LQX-C2/2DC1000VBB

LQX-C2/2DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



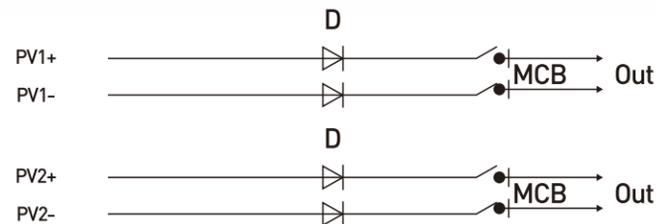
Short-circuit protection, overload protection, Isolation circuit



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



OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	Dc1000	Rated Voltage Ue (V) Dc1200
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C3/3

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 1000/1200V 3 in 3 out



LQX-C3/3DC1000VBB

LQX-C3/3DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



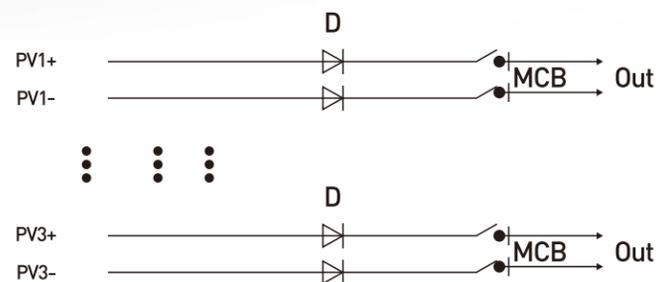
Short-circuit protection, overload protection, Isolation circuit



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

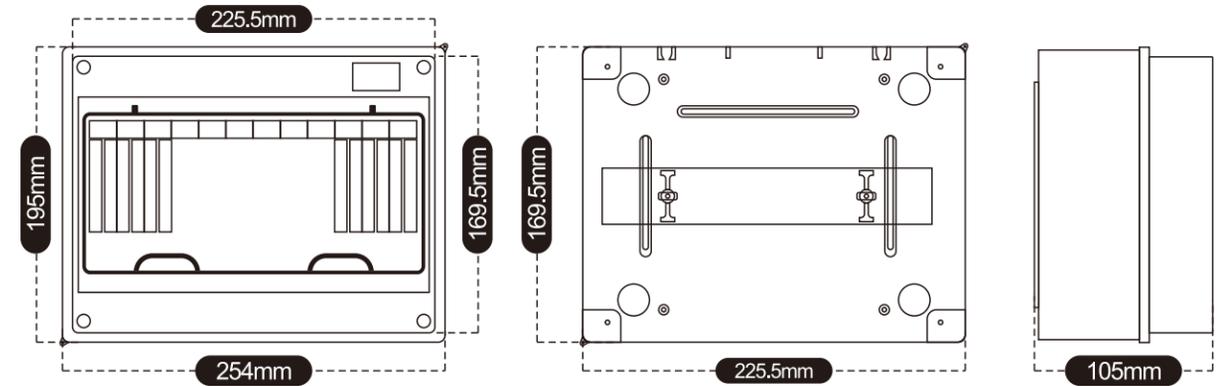


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



#### Technical data

Model	LQX-C3/3DC1000VBB	LQX-C3/3DC1200VLL
String	3 in 3 out	
Rated Voltage Ue (V)	DC 1000	DC 1200
Rated current In(A)	16~125	16~63
Quality Certificate	CE, ISO9001, 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(16~63A), 194*360*105mm(80~125A)	

	MCB(B1)	MCB(L7)
Rated Voltage Ue (V)	Dc1000	Rated Voltage Ue (V) Dc1200
Ui (V)	DC1000	Ui (V) DC1200
Rated Current In(A)	16/20/25/32/40/50/63/80/100/125	Rated Current In(A) 16/20/25/32/40/50/63
Icu (kA)	6	Icu (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX-C4/4

CE  IEC IP65

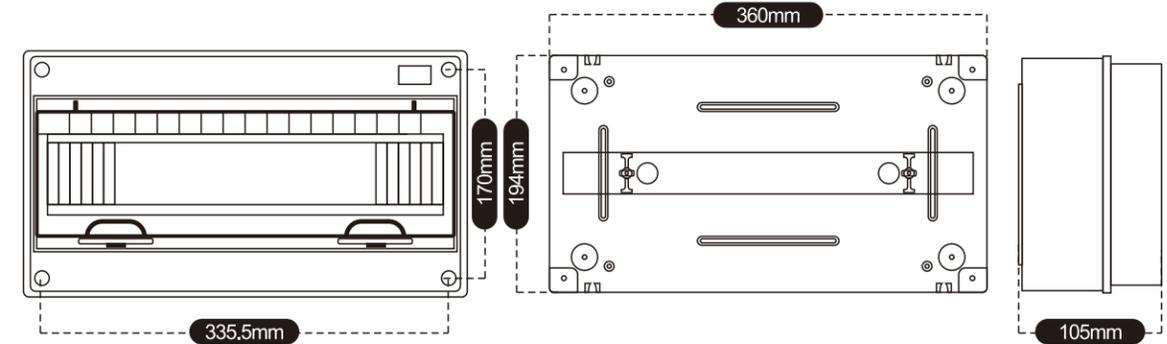
**CN**LONG.com

# Circuit Breaker Box

## DC 1000/1200V 4 in 4 out



### Product Dimension Drawing (mm)



LQX-C4/4DC1000VBB

LQX-C4/4DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



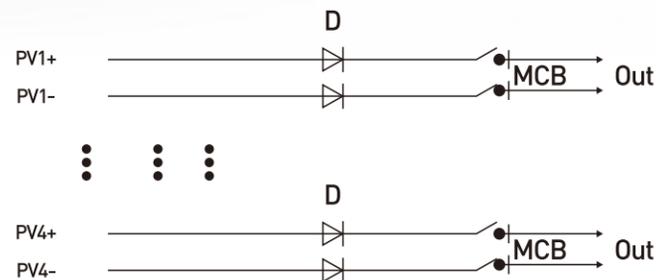
Short-circuit protection, overload protection, Isolation circuit



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



OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker  
D: Anti-reflection diode (optional)

#### Technical data

Model	LQX-C4/4DC1000VBB	LQX-C4/4DC1200VLL
String	4 in 4 out	
Rated Voltage U <sub>e</sub> (V)	DC 1000	DC 1200
Rated current I <sub>n</sub> (A)	16~125	16~63
Quality Certificate	CE, ISO9001, 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(16~63A), 357*271*110mm(80~125A)	

	MCB(B1)	MCB(L7)
Rated Voltage U <sub>e</sub> (V)	Dc1000	Rated Voltage U <sub>e</sub> (V) Dc1200
U <sub>i</sub> (V)	DC1000	U <sub>i</sub> (V) DC1200
Rated Current I <sub>n</sub> (A)	16/20/25/32/40/50/63/80/100/125	Rated Current I <sub>n</sub> (A) 16/20/25/32/40/50/63
I <sub>cu</sub> (kA)	6	I <sub>cu</sub> (kA) 6
standard	IEC 60947-2	standard IEC 60947-2