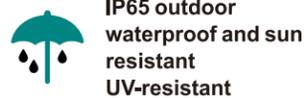


# PV Circuit Breaker Box LQX-A Series



## DC500V~1200V 16~125A input1~12 output1~12

CNLOONQ'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+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant



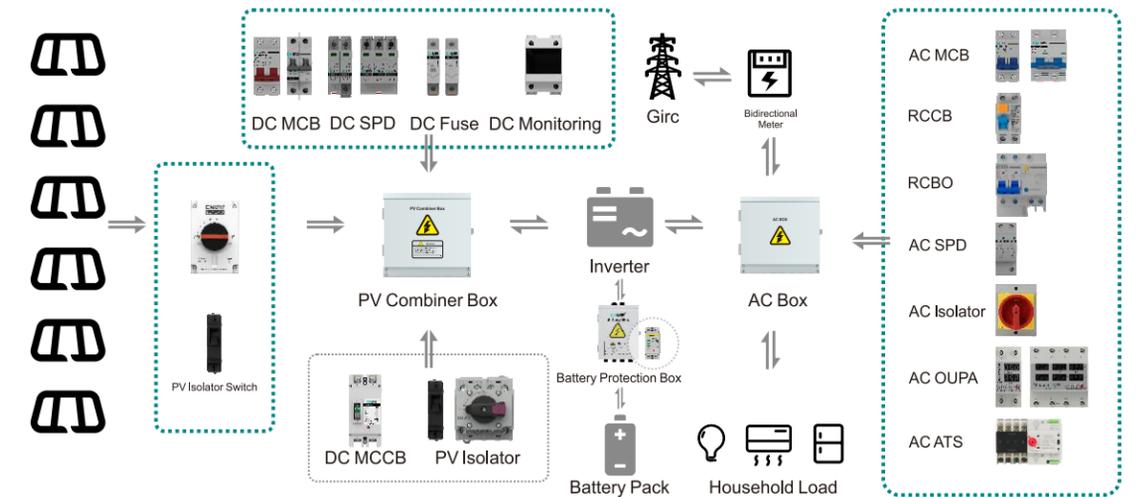
OEM/ODM Free Customization for PV Products

## Company Profile

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

**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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LQX1/1

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 1 in 1 out



LQX1/1DC500VBB



LQX1/1DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



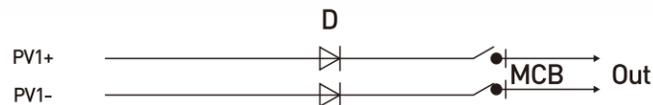
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

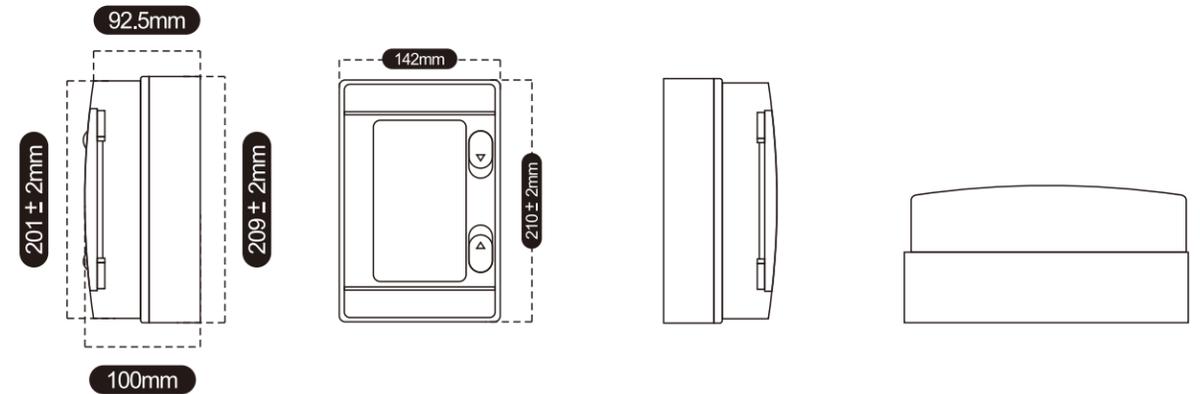


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX1/1DC500VBB	LQX1/1DC600VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*142*100mm	

	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

LQX2/2

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 2 in 2 out



LQX2/2DC500VBB



LQX2/2DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



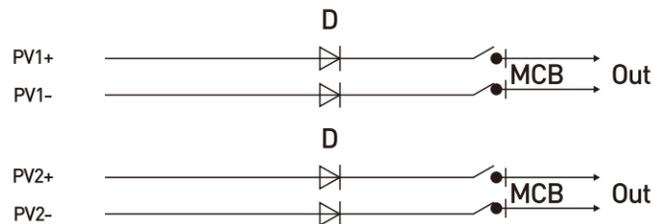
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

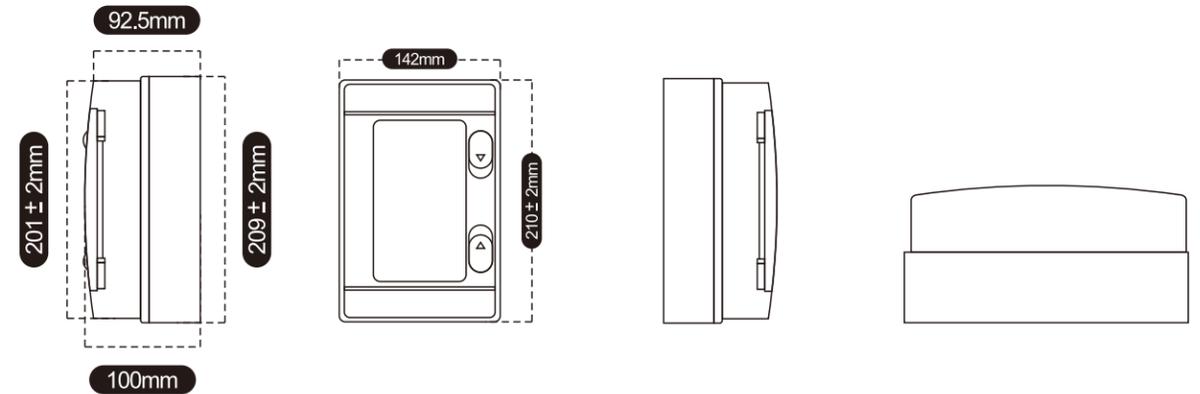


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX2/2DC500VBB	LQX2/2DC600VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*142*100mm(16~63A), 210*215*100mm(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

LQX3/3

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 3 in 3 out



LQX3/3DC500VBB

LQX3/3DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



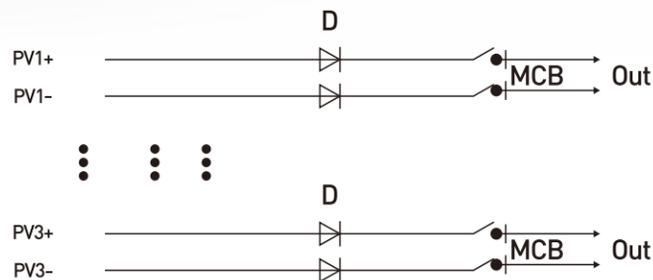
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

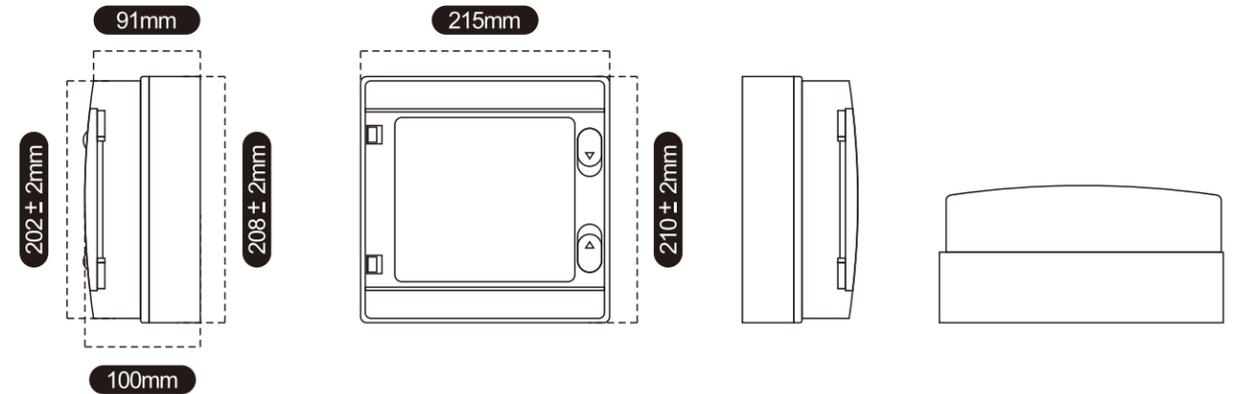


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX3/3DC500VBB	LQX3/3DC600VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*215*100(mm16~63A), 258*298*125mm(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

LQX4/4

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 4 in 4 out



LQX4/4DC500VBB

LQX4/4DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



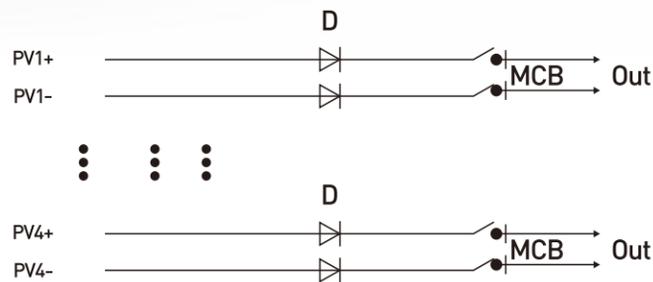
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

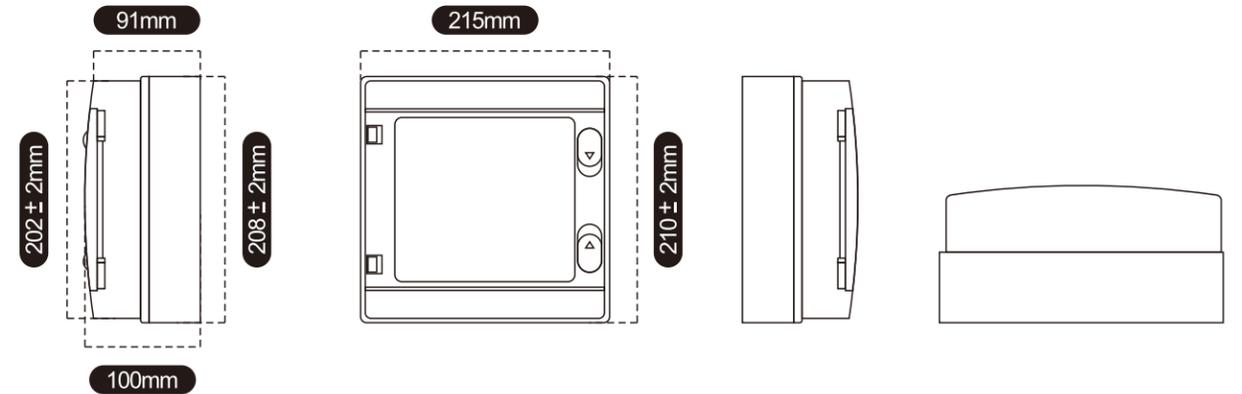


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX4/4DC500VBB	LQX4/4DC600VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*215*100mm(16~63A), 258*298*125mm(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

LQX5/5

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 500/600V 5 in 5 out



LQX5/5DC500VBB

LQX5/5DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



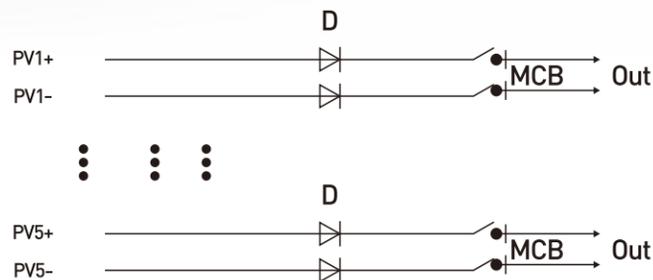
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

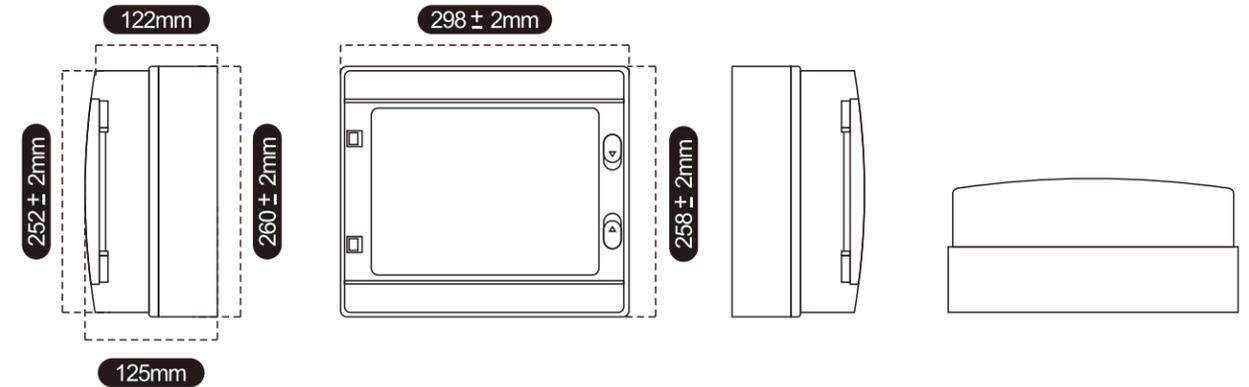


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX5/5DC500VBB	LQX5/5DC600VLL
String	5 in 5 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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	258*298*125mm(10~63A), 258*298*125mm(80~125)	

	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

LQX6/6

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 500/600V 6 in 6 out



LQX6/6DC500VBB

LQX6/6DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



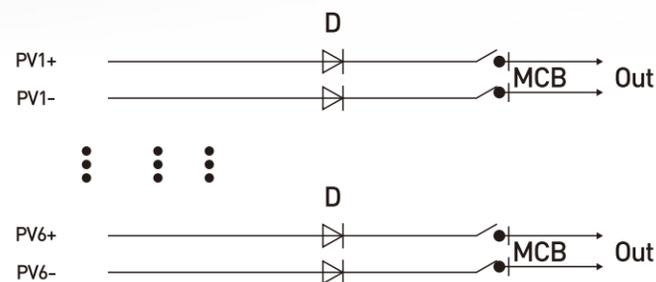
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

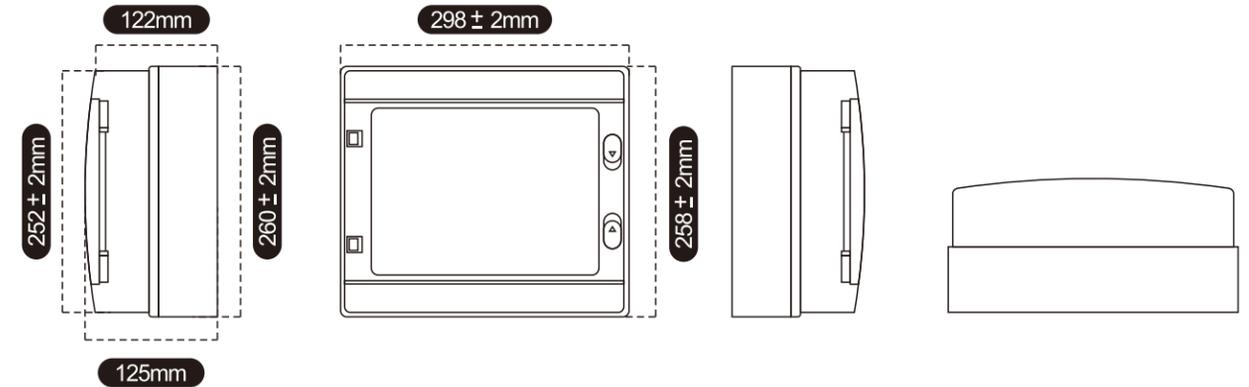


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



#### Technical data

Model	LQX6/6DC500VBB	LQX6/6DC600VLL
String	6 in 6 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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	258*298*125mm(10~63A), 258*298*125mm(80~125)	

	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

LQX1/1

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 1000/1200V 1 in 1 out



LQX1/1DC1000VBB



LQX1/1DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



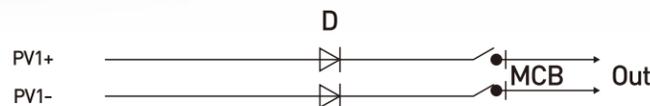
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

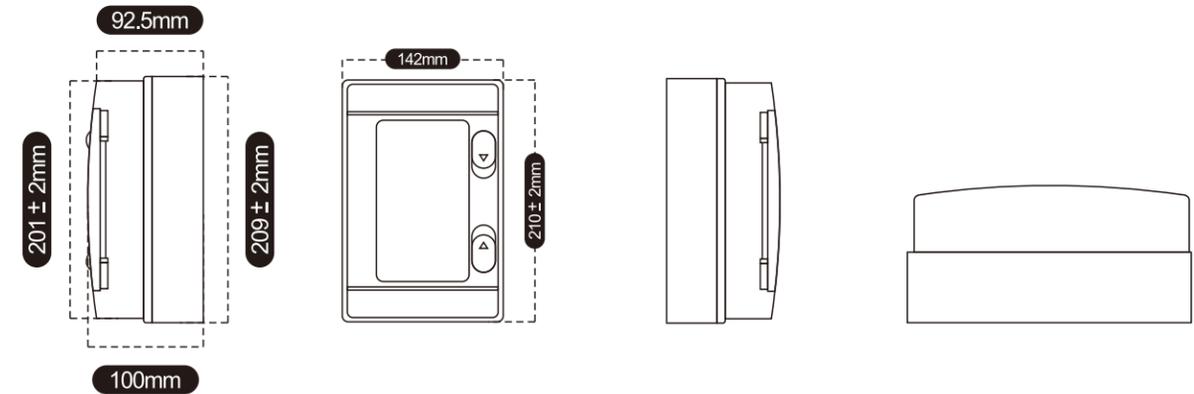


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX1/1DC1000VBB	LQX1/1DC1200VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*142*100mm(10~63A), 210*215*100mm(80~125)	

	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

LQX2/2

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 1000/1200V 2 in 2 out



LQX2/2DC1000VBB

LQX2/2DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



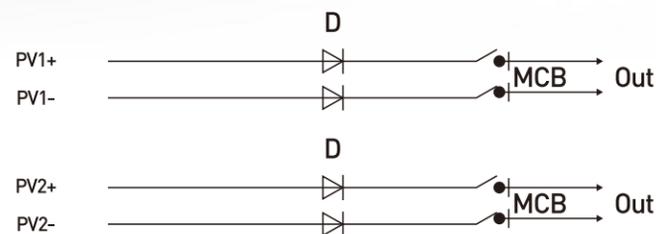
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

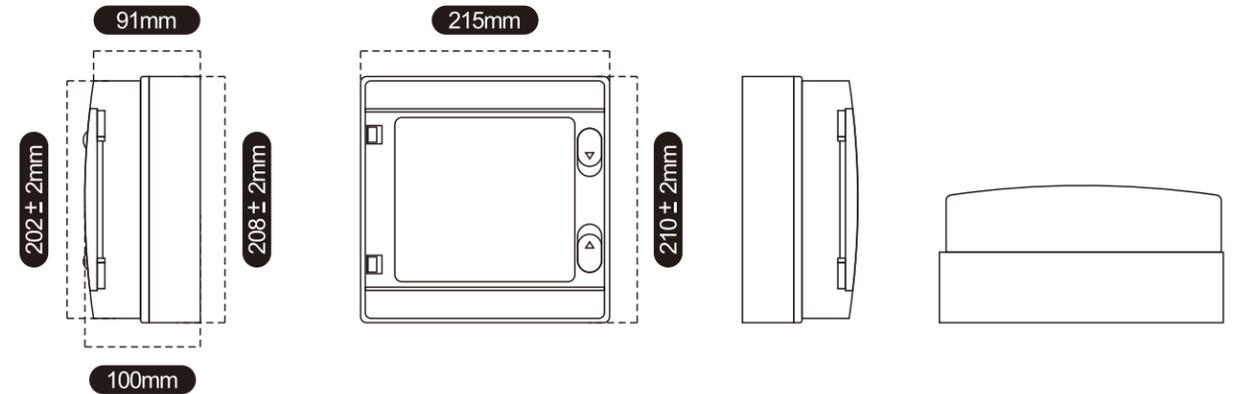


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX2/2DC1000VBB	LQX2/2DC1200VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	210*215*100mm(10~63), 258*298*125mm(80~125)	

	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

LQX3/3

CE  IEC IP65

**CN**LONGQ.com

# Circuit Breaker Box

## DC 1000/1200V 3 in 3 out



LQX3/3DC1000VBB

LQX3/3DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



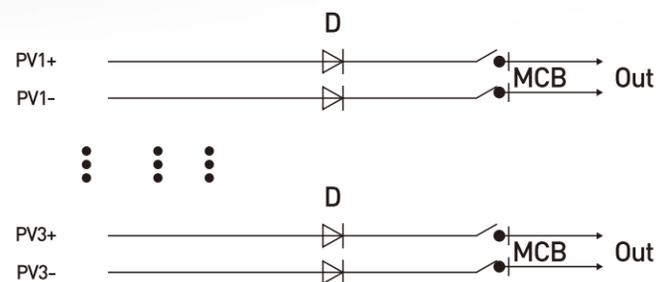
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

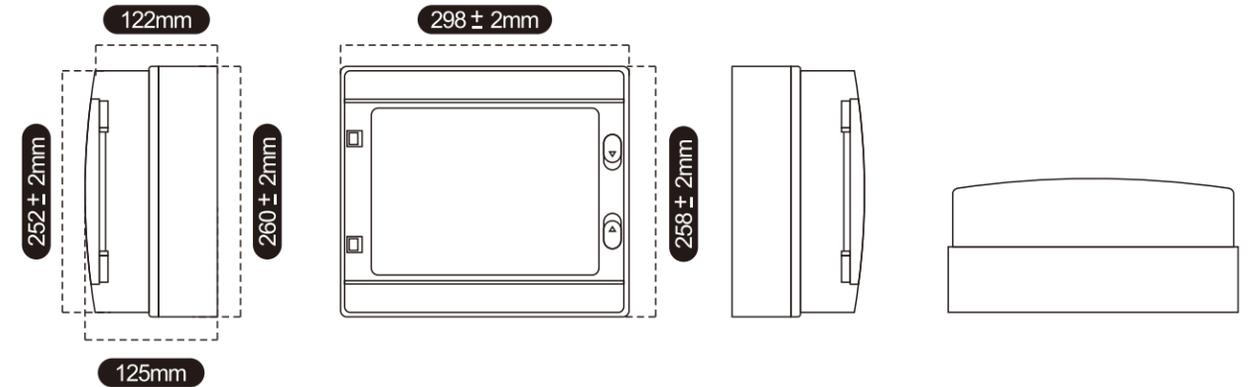


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX3/3DC1000VBB	LQX3/3DC1200VLL
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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	258*298*125mm(10~63), 285*410*128mm(80~125)	

	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

LQX4/4

CE  IEC IP65

**CN**LONG.com

# Circuit Breaker Box

## DC 1000/1200V 4 in 4 out



LQX4/4DC1000VBB

LQX4/4DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



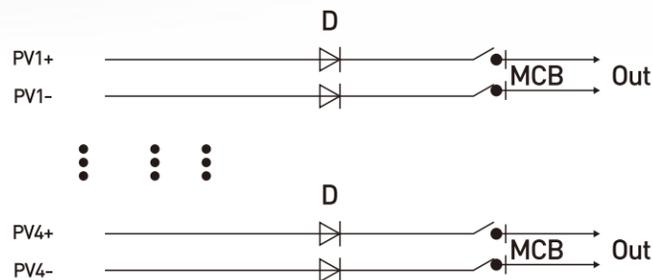
Short-circuit protection, overload protection, Isolation circuit



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

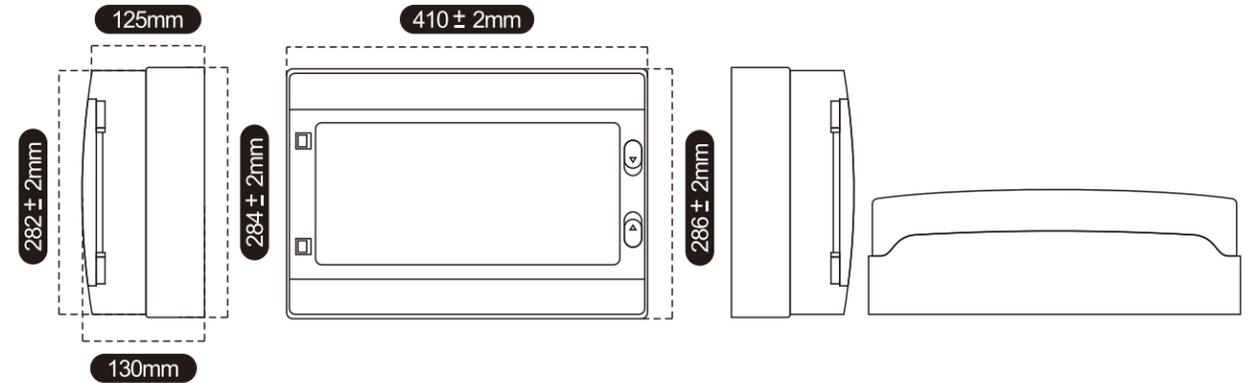


OEM/ODM Free Customization for PV Products



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

### Product Dimension Drawing (mm)



Technical data		
Model	LQX4/4DC1000VBB	LQX4/4DC1200VLL
String	4 in 4 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	IK10	
Box Material	PC+ABS	
Operating Temperature	-25 °C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Wall Mounting	
Altitude	2000m	
Dimension (without mounting connector)	285*410*128mm(10~63), 422*298*135mm(80~125)	

	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

LQX1/1



CNLONGQ.com

# PV Isolation Box

## DC 1200V 1 in 1 out



LQX1/1DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



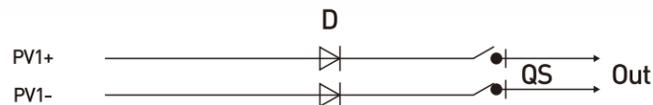
Isolation circuit Circuit completely isolated



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

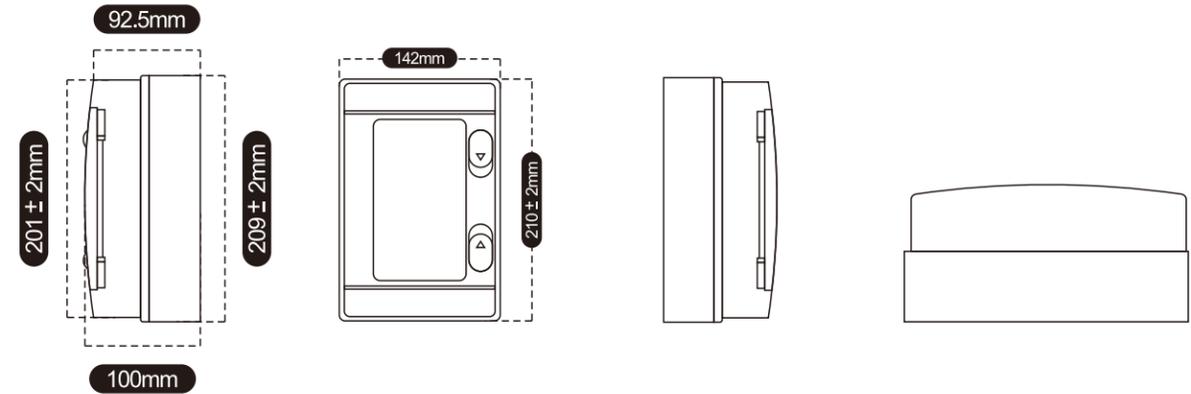


OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data	
Model	LQX1/1DC1200VQQ
String	1 in 1 out
Rated Voltage Ue (V)	DC 1200
Ui(V)	DC 1500
Rated current In(A)	32,63
Uimp(kV)	8
Quality Certificate	TUV,CB,UKCA,CE,ISO9001,RoHS,CCC, IP65
Standard	IEC 60947-3
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25 °C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Wall Mounting
Altitude	2000m
Dimension (without mounting connector)	210*142*100mm

LQX2/2



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# PV Isolation Box

## DC 1200V 2 in 2 out



LQX2/2DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



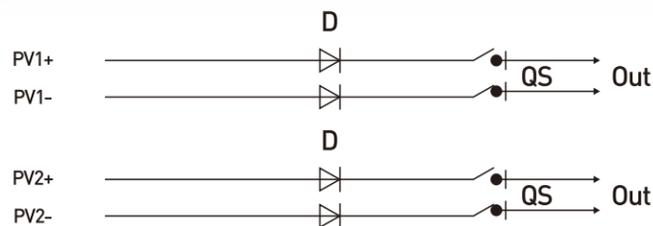
Isolation circuit Circuit completely isolated



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

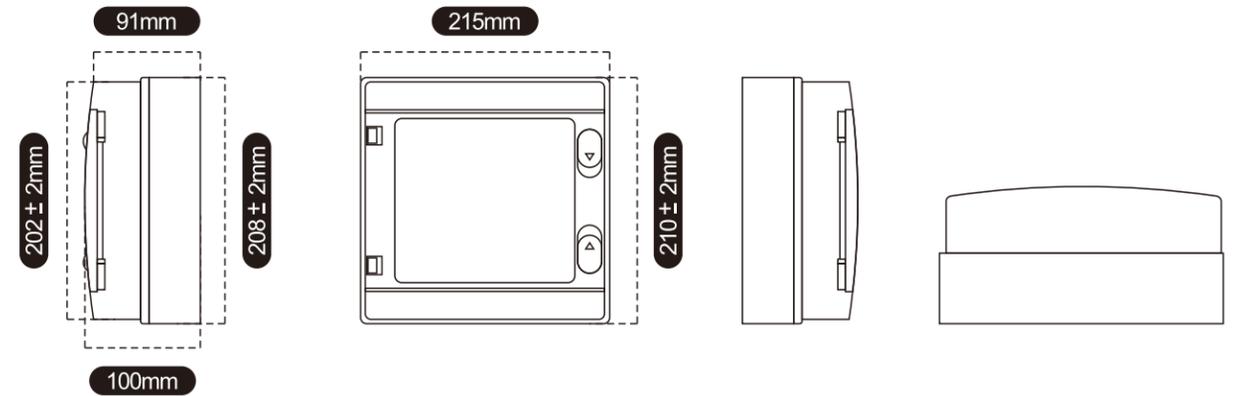


OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



Technical data	
Model	LQX2/2DC1200VQQ
String	2 in 2 out
Rated Voltage Ue (V)	DC 1200
Ui(V)	DC 1500
Rated current In(A)	32,63
Uimp(kV)	8
Quality Certificate	TUV,CB,UKCA,CE,ISO9001,RoHS,CCC, IP65
Standard	IEC 60947-3
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25 °C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Wall Mounting
Altitude	2000m
Dimension (without mounting connector)	210*215*100mm

LQX3/3

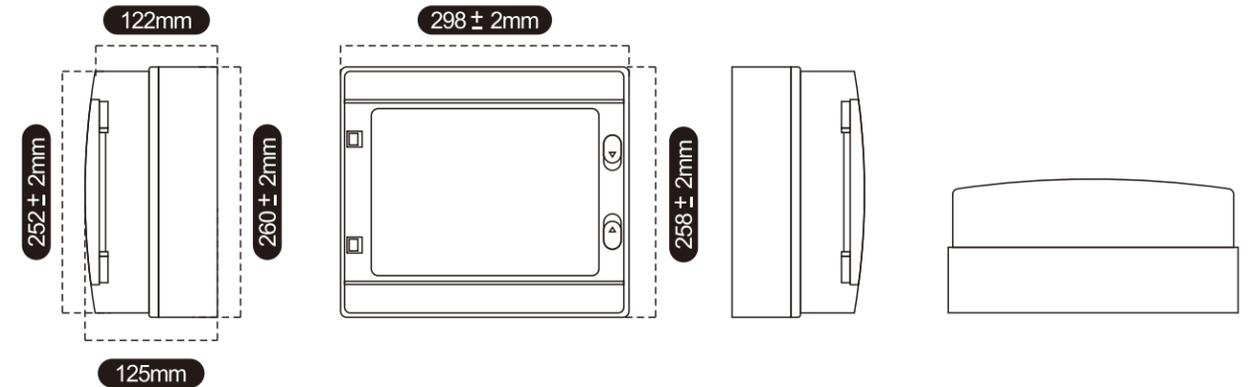


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# PV Isolation Box

## DC 1200V 3 in 3 out

### Product Dimension Drawing (mm)



LQX3/3DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



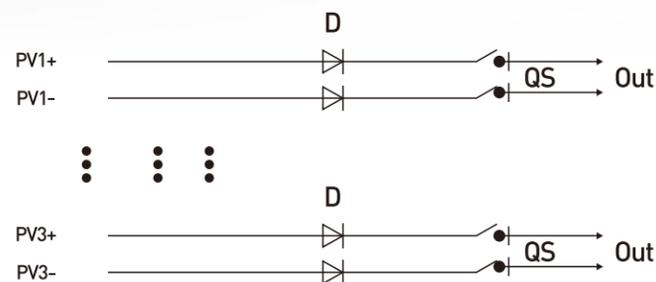
Isolation circuit Circuit completely isolated



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant



OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator  
D: Anti-reflection diode (optional)

#### Technical data

Model	LQX3/3DC1200VQQ
String	3 in 3 out
Rated Voltage U <sub>e</sub> (V)	DC 1200
U <sub>i</sub> (V)	DC 1500
Rated current I <sub>n</sub> (A)	32,63
U <sub>imp</sub> (kV)	8
Quality Certificate	TUV,CB,UKCA,CE,ISO9001,RoHS,CCC, IP65
Standard	IEC 60947-3
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25 °C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Wall Mounting
Altitude	2000m
Dimension (without mounting connector)	258*298*125mm

LQX4/4



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# PV Isolation Box

## DC 1200V 4 in 4 out



LQX4/4DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



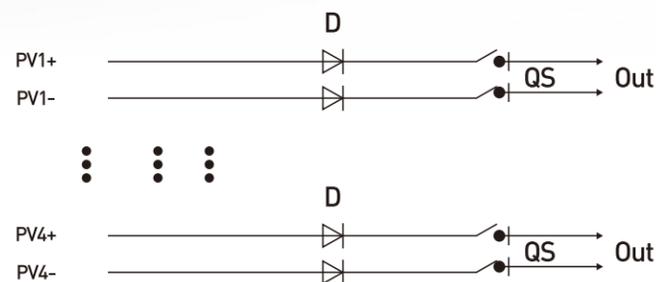
Isolation circuit Circuit completely isolated



PC+ABS housing, IK10 impact resistance, flame retardant, corrosion resistant

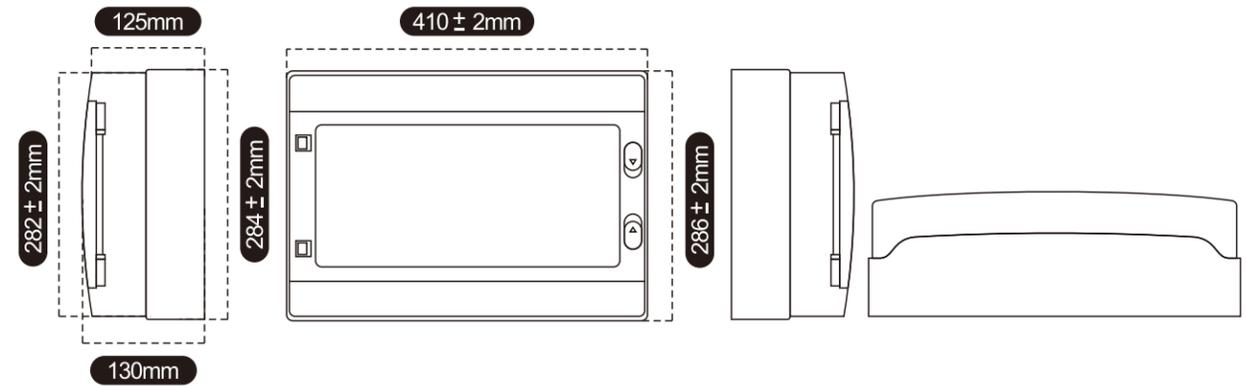


OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator  
D: Anti-reflection diode (optional)

### Product Dimension Drawing (mm)



#### Technical data

Model	LQX4/4DC1200VQQ
String	4 in 4 out
Rated Voltage Ue (V)	DC 1200
Ui(V)	DC 1500
Rated current In(A)	32,63
Uimp(kV)	8
Quality Certificate	TUV,CB,UKCA,CE,ISO9001,RoHS,CCC, IP65
Standard	IEC 60947-3
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25 °C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Wall Mounting
Altitude	2000m
Dimension (without mounting connector)	285*410*128mm