

PV Circuit Breaker Box LQX-A Series



LQX1/1DC500VBB



LQX2/2DC1200VQQ

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

CNLONGQ'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

Contents

LQX1/1DC500VBB 600VLL	1	LQX1/1DC1200VQQ	21
LQX2/2DC500VBB 600VLL	3	LQX2/2DC1200VQQ	23
LQX3/3DC500VBB 600VLL	5	LQX3/3DC1200VQQ	25
LQX4/4DC500VBB 600VLL	7	LQX4/4DC1200VQQ	27
LQX5/5DC500VBB 600VLL	9		
LQX6/6DC500VBB 600VLL	11		
LQX1/1DC1000VBB 1200VLL	13		
LQX2/2DC1000VBB 1200VLL	15		
LQX3/3DC1000VBB 1200VLL	17		
LQX4/4DC1000VBB 1200VLL	19		

LQX1/1

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Circuit Breaker Box

DC 500/600V 1 in 1 out



LQX1/1DC500VBB



LQX1/1DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



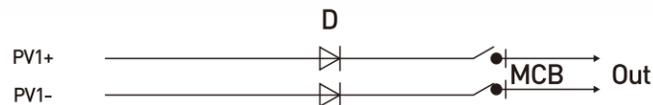
Short-circuit protection, overload protection, Isolation circuit



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

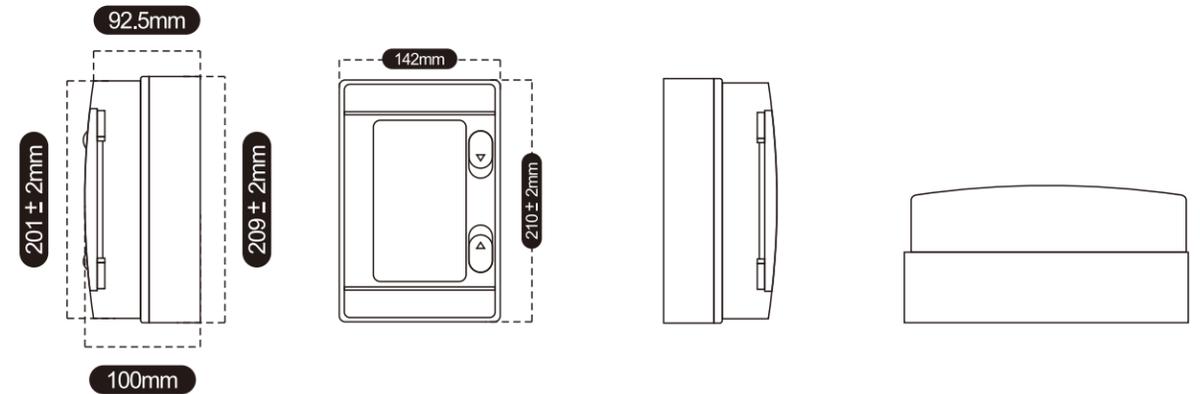


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 500/600V 2 in 2 out



LQX2/2DC500VBB



LQX2/2DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



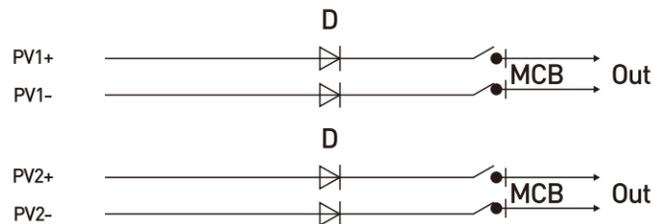
Short-circuit protection, overload protection, Isolation circuit



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

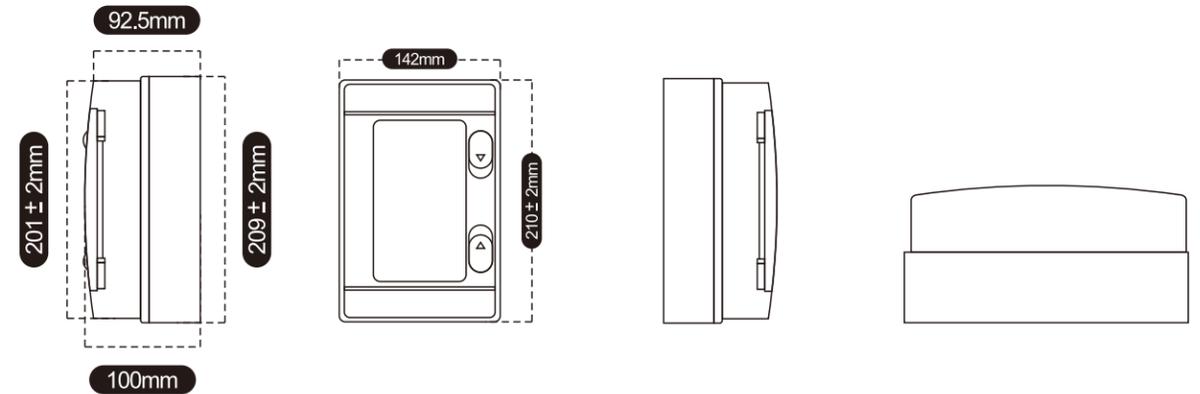


OEM/ODM Free Customization for PV Products



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 U _e (V)	DC 500	DC 600
Rated current I _n (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 U _e (V)	DC500	Rated Voltage U _e (V) DC600
U _i (V)	DC1000	U _i (V) DC1200
Rated Current I _n (A)	16/20/25/32/40/50/63/80/100/125	Rated Current I _n (A) 16/20/25/32/40/50/63
I _{cu} (kA)	6	I _{cu} (kA) 6
standard	IEC 60947-2	standard IEC 60947-2

LQX3/3

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Circuit Breaker Box

DC 500/600V 3 in 3 out



LQX3/3DC500VBB

LQX3/3DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



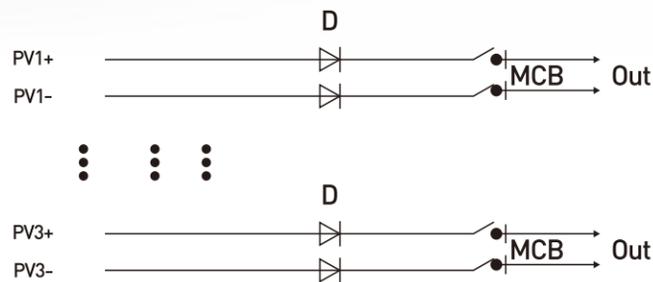
Short-circuit protection, overload protection, Isolation circuit



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

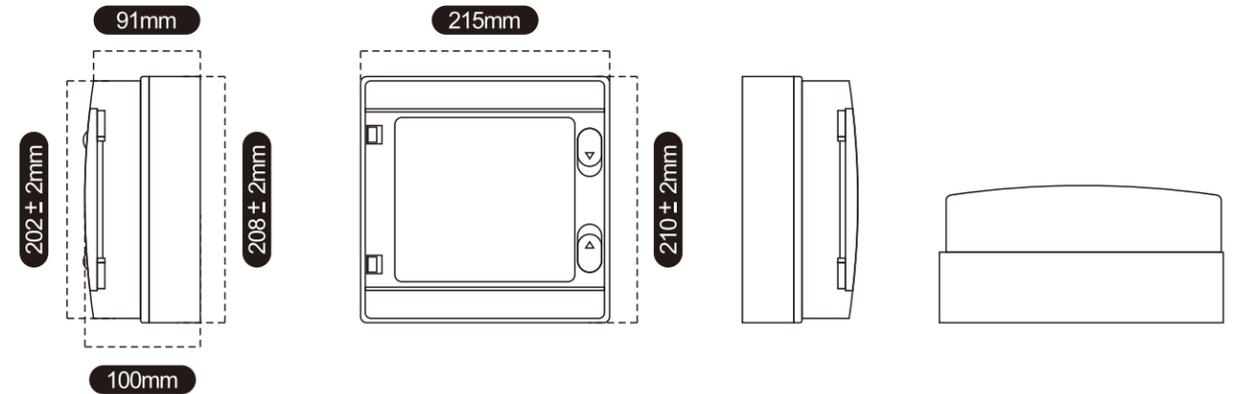


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 500/600V 4 in 4 out



LQX4/4DC500VBB

LQX4/4DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



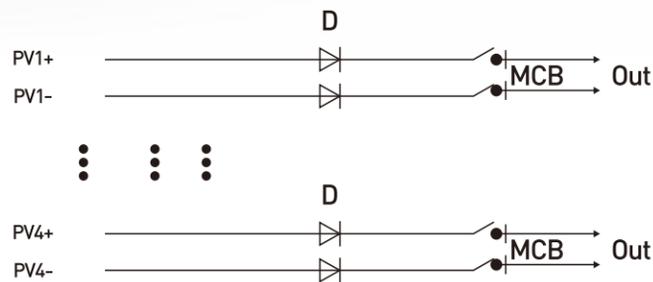
Short-circuit protection, overload protection, Isolation circuit



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

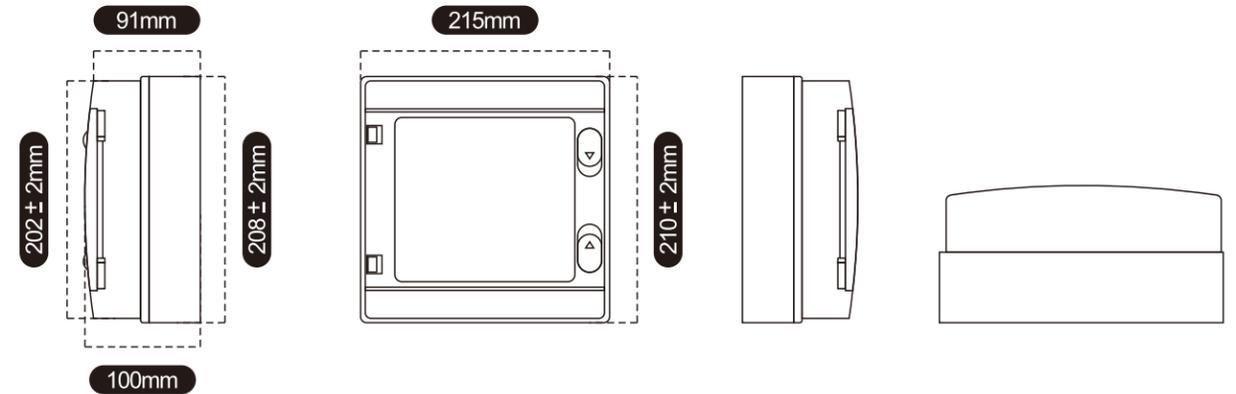


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 500/600V 5 in 5 out



LQX5/5DC500VBB

LQX5/5DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



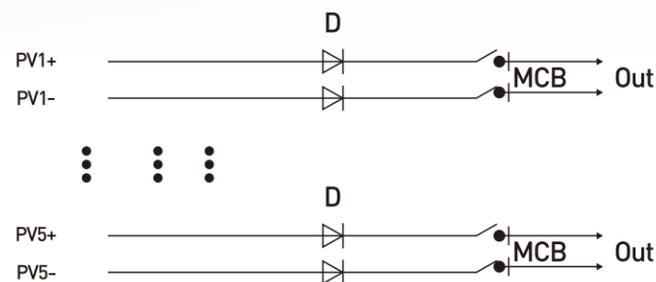
Short-circuit protection, overload protection, Isolation circuit



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

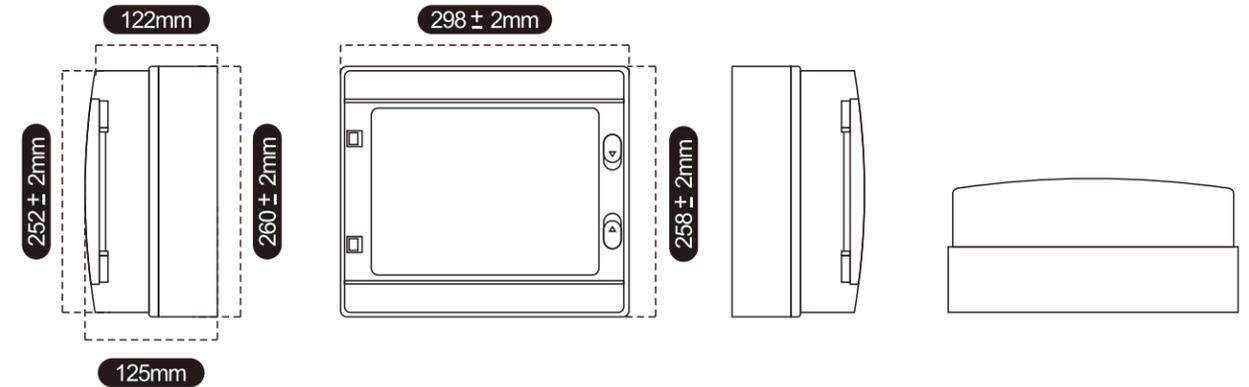


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 500/600V 6 in 6 out



LQX6/6DC500VBB

LQX6/6DC600VLL



IP65 outdoor waterproof and sun resistant UV-resistant



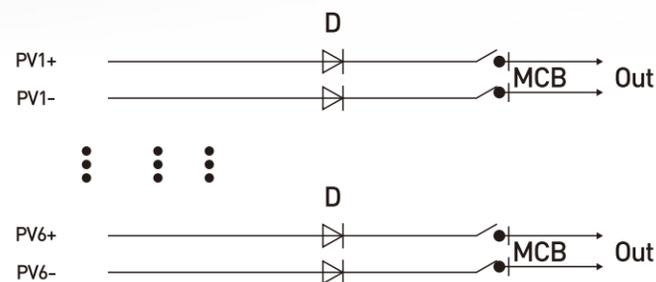
Short-circuit protection, overload protection, Isolation circuit



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

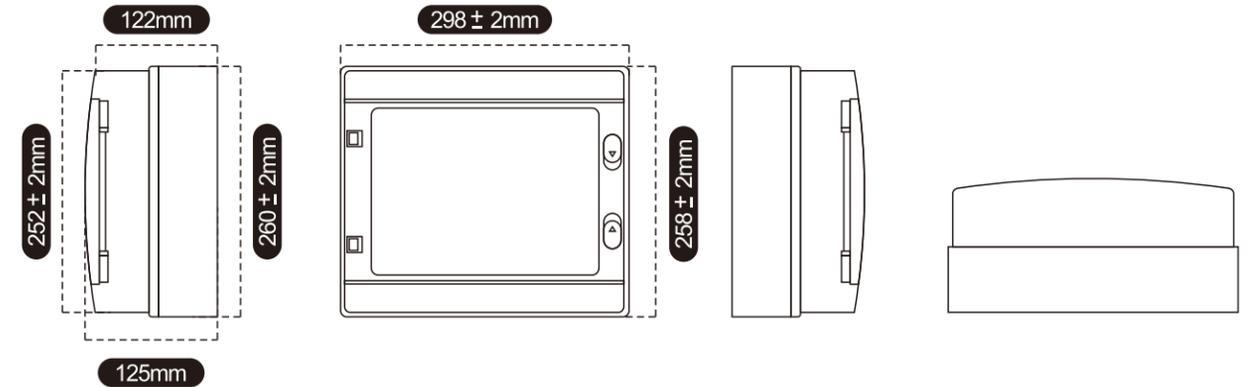


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 1000/1200V 1 in 1 out



LQX1/1DC1000VBB



LQX1/1DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



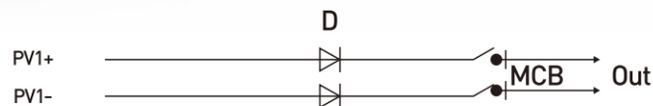
Short-circuit protection, overload protection, Isolation circuit



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

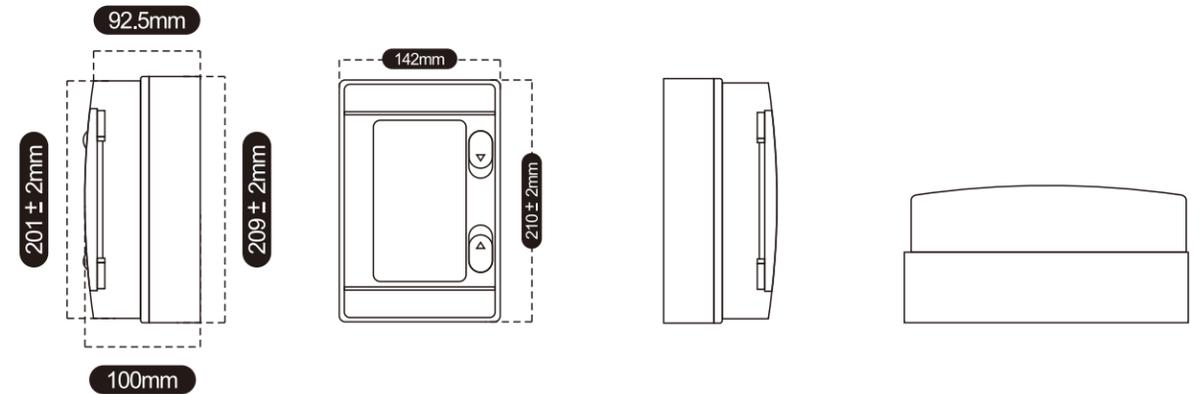


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 1000/1200V 2 in 2 out



LQX2/2DC1000VBB

LQX2/2DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



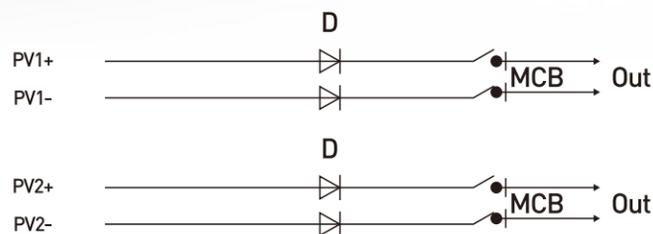
Short-circuit protection, overload protection, Isolation circuit



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

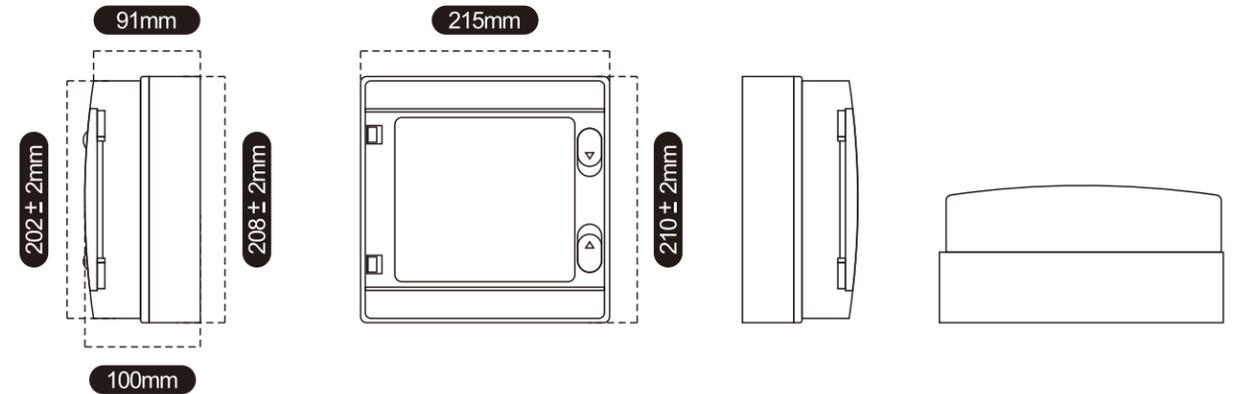


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 1000/1200V 3 in 3 out



LQX3/3DC1000VBB

LQX3/3DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



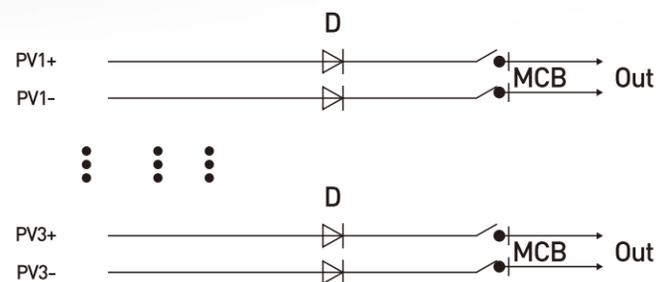
Short-circuit protection, overload protection, Isolation circuit



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

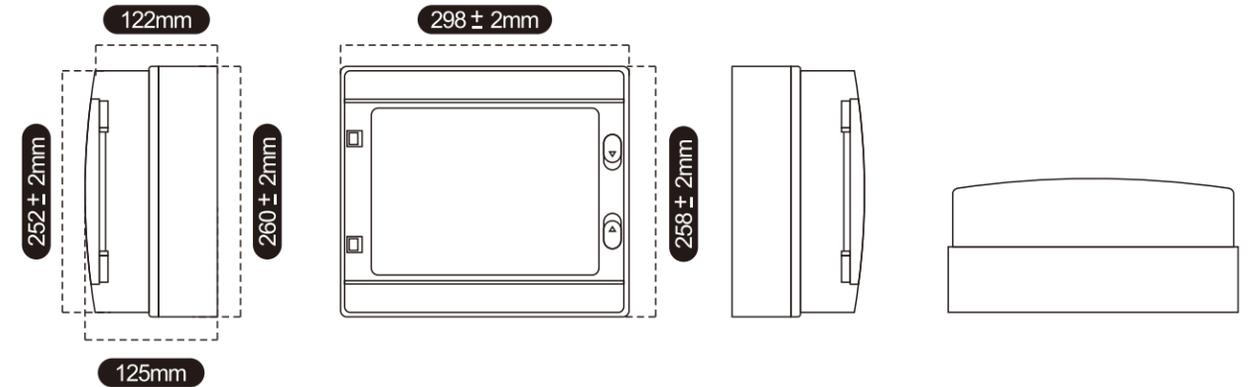


OEM/ODM Free Customization for PV Products



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

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Circuit Breaker Box

DC 1000/1200V 4 in 4 out



LQX4/4DC1000VBB

LQX4/4DC1200VLL



IP65 outdoor waterproof and sun resistant UV-resistant



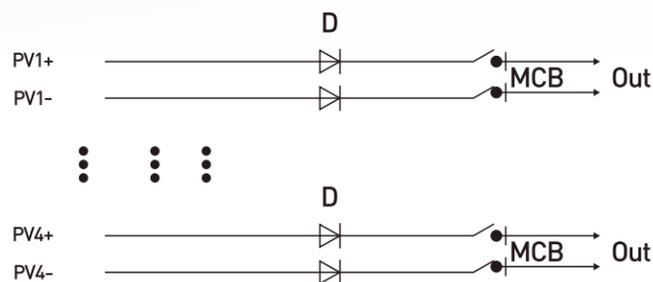
Short-circuit protection, overload protection, Isolation circuit



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

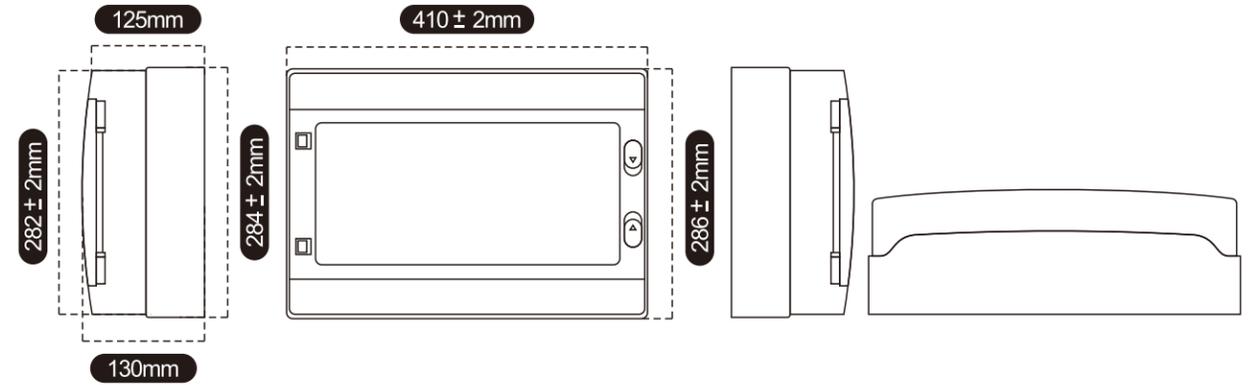


OEM/ODM Free Customization for PV Products



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

TÜV Rheinland CE ISO 9001 RoHS IEC UK CA CB IP65

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PV Isolation Box

DC 1200V 1 in 1 out



LQX1/1DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



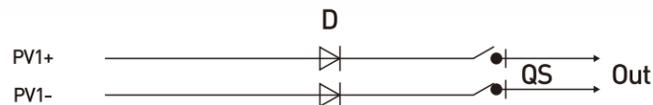
Isolation circuit Circuit completely isolated



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

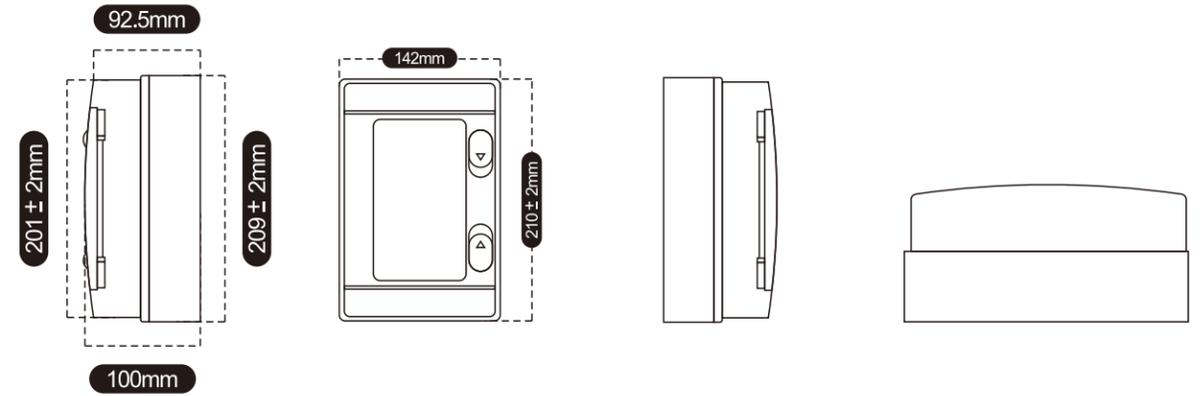


OEM/ODM Free Customization for PV Products



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



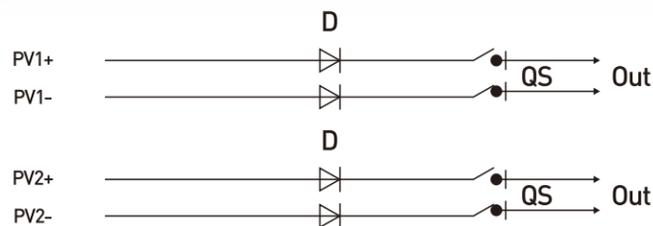
Isolation circuit Circuit completely isolated



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

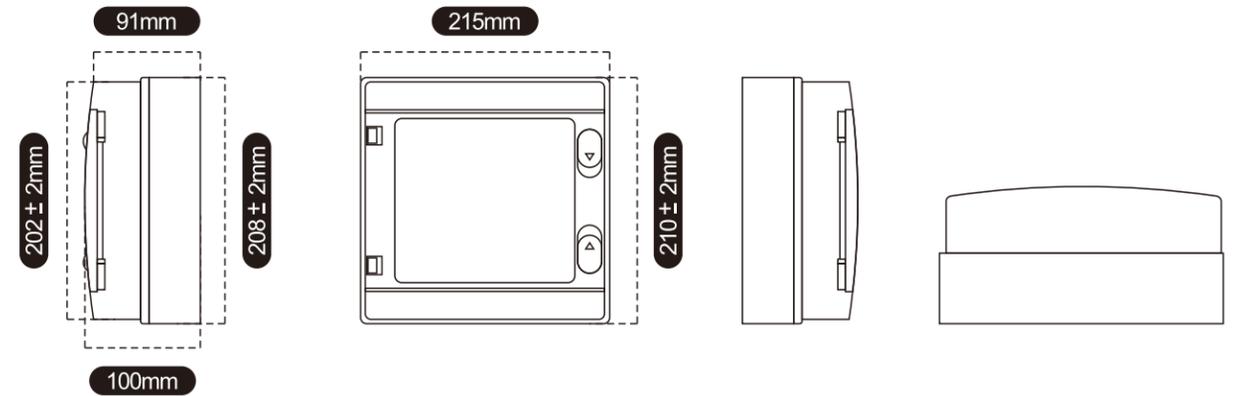


OEM/ODM Free Customization for PV Products



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

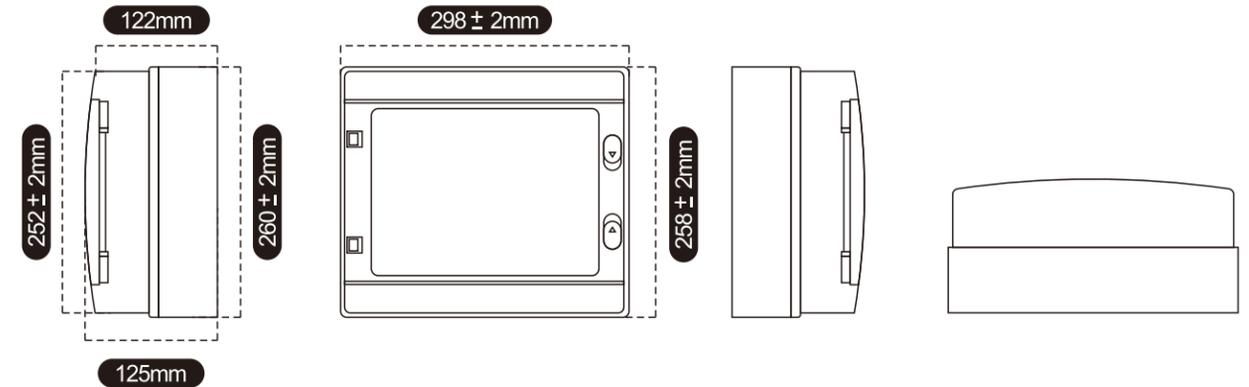


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PV Isolation Box

DC 1200V 3 in 3 out

Product Dimension Drawing (mm)



LQX3/3DC1200VQQ



IP65 outdoor waterproof and sun resistant UV-resistant



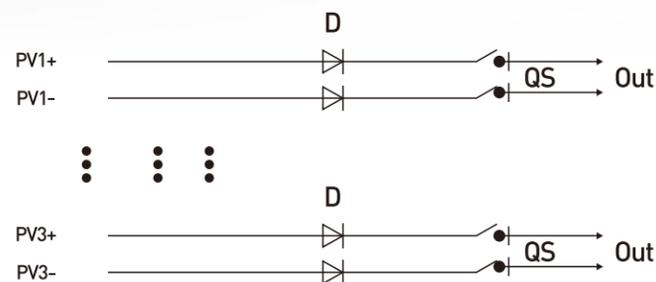
Isolation circuit Circuit completely isolated



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 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)	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



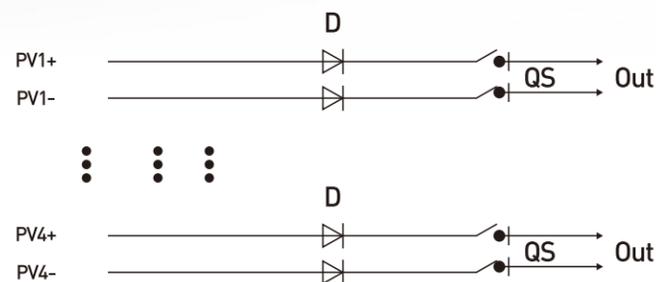
Isolation circuit Circuit completely isolated



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

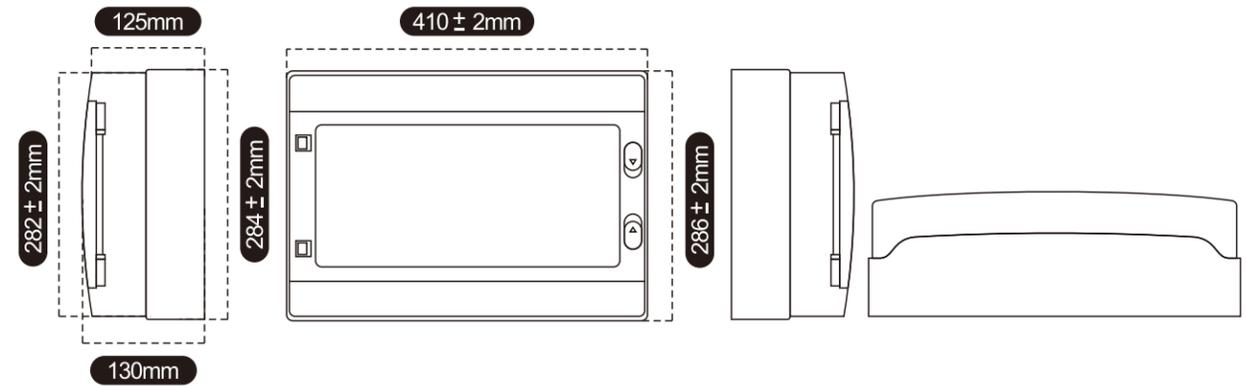


OEM/ODM Free Customization for PV Products



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