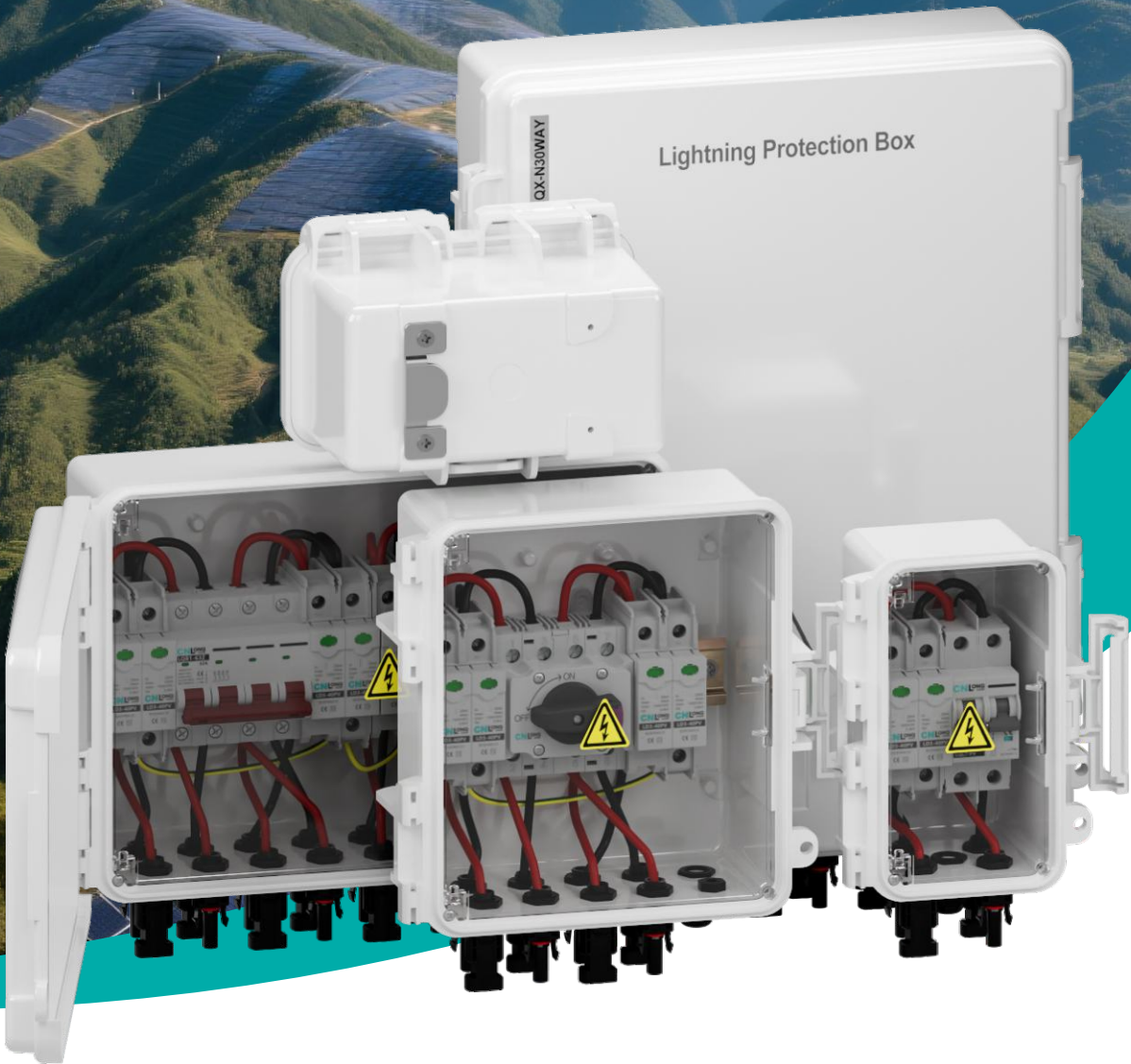


Lightning Protection Box LQX-N Series



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

CNLONG Photovoltaic combiner boxes are reliable components for solar power plants and rooftop systems. They feature DC overcurrent protection, surge suppression, and fuse short-circuit protection. Ip68 protection rating. Photovoltaic combiner boxes serve as the critical hub for connecting multiple solar panels in series to the inverter. They consolidate DC power while providing essential protection and monitoring to maximize system safety, efficiency, and return on investment.



IP68 outdoor
waterproof and sun
resistant
UV-resistant



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



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



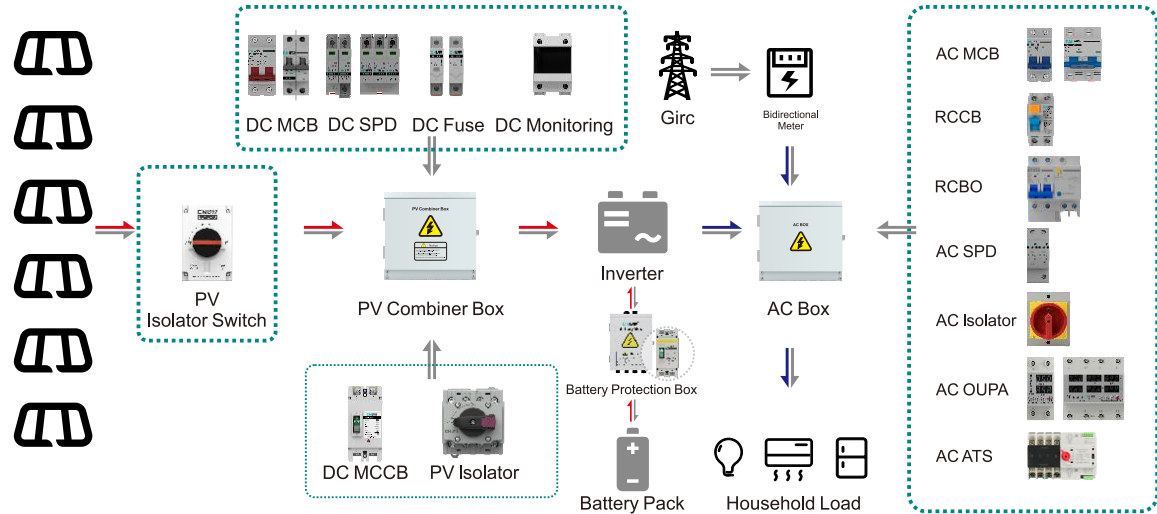
OEM/ODM Free
Customization
for PV Products

Company Profile

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

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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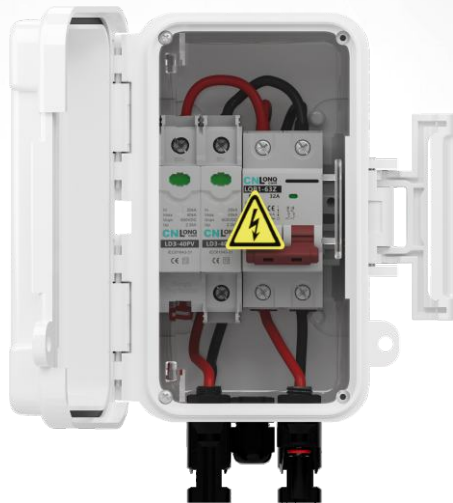
LQX-N1/1

CE ISO 9001 RoHS IEC IP68

CN LONGQ.com

Lightning Protection Box

DC 500/600V 1in 1out



LQX-N1/1DC500VBS

LQX-N1/1DC600VLS



IP68 outdoor waterproof and sun resistant UV-resistant



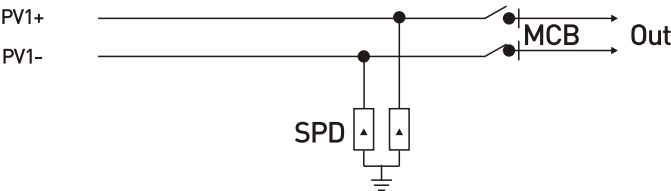
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

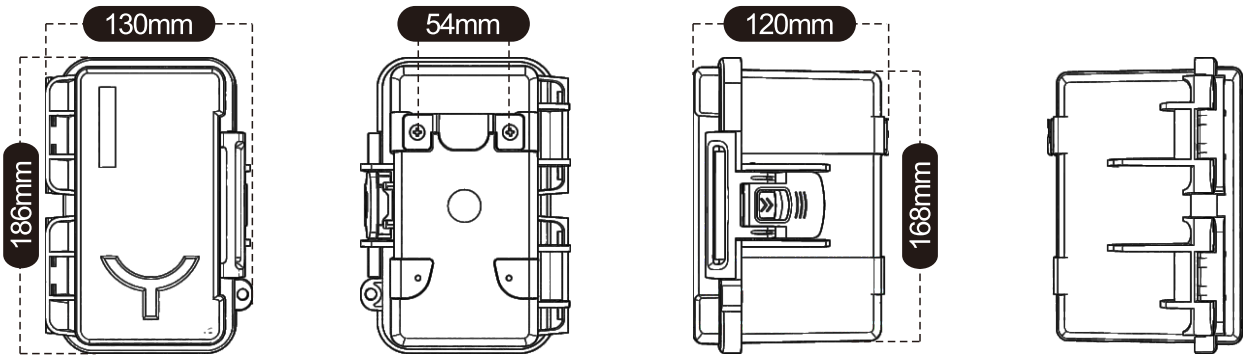


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-N1/1DC500VBS	LQX-N1/1DC600VLS
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,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	186*130*120mm	

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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-N2/2

CE ISO 9001 RoHS IEC IP68

CNLong.com

Lightning Protection Box

DC 500/600V 2in 2out



LQX-N2/2DC500VBS

LQX-N2/2DC600VLS



IP68 outdoor waterproof and sun resistant UV-resistant



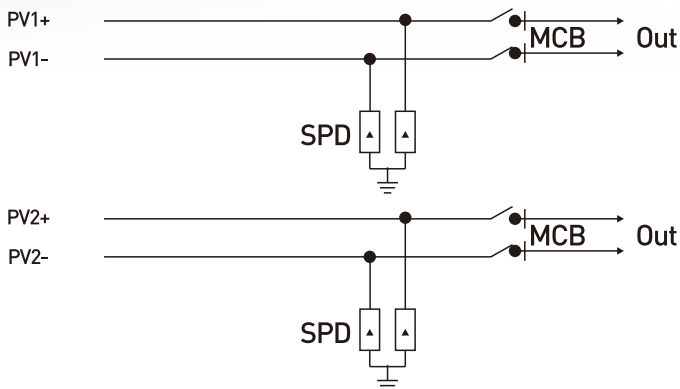
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

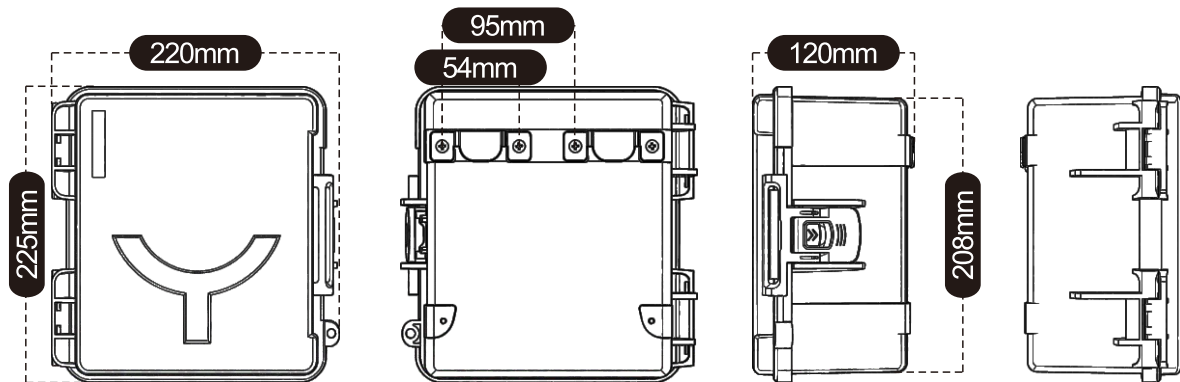


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-N2/2DC500VBS	LQX-N2/2DC600VLS
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,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	225*220*120mm	

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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-N3/3

CE ISO 9001 RoHS IEC IP68

CNLongq.com

Lightning Protection Box

DC 500/600V 3in 3out



LQX-N3/3DC500VBS

LQX-N3/3DC600VLS

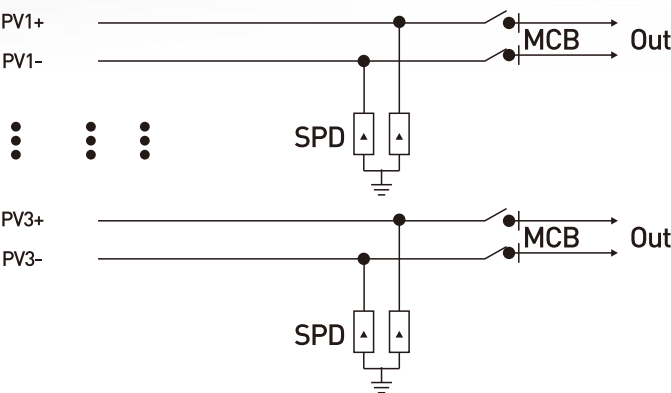
- 

IP68 outdoor waterproof and sun resistant UV-resistant
- 

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

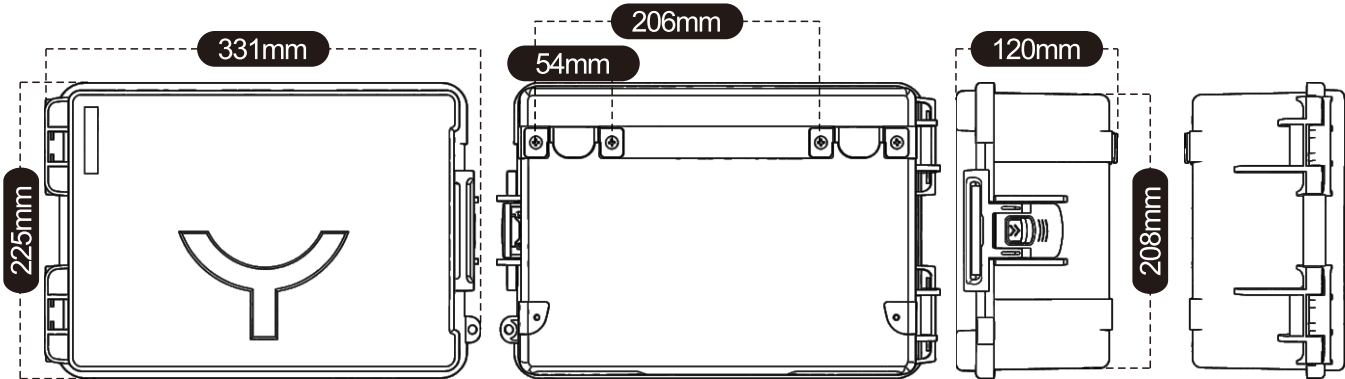
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-N3/3DC500VBS	LQX-N3/3DC600VLS
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,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	225*331*120mm	

	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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

LQX-N4/4

CE ISO 9001 RoHS IEC IP68

CNLong.com

Lightning Protection Box

DC 500/600V 4in 4out



LQX-N4/4DC500VBS

LQX-N4/4DC600VLS



IP68 outdoor waterproof and sun resistant UV-resistant



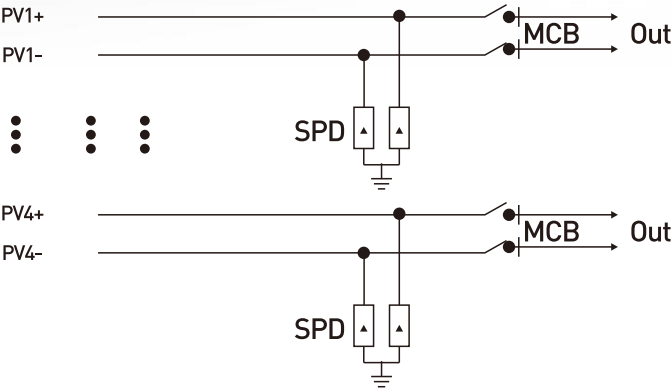
Short-circuit protection, overload protection, lightning protection, isolation circuit



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

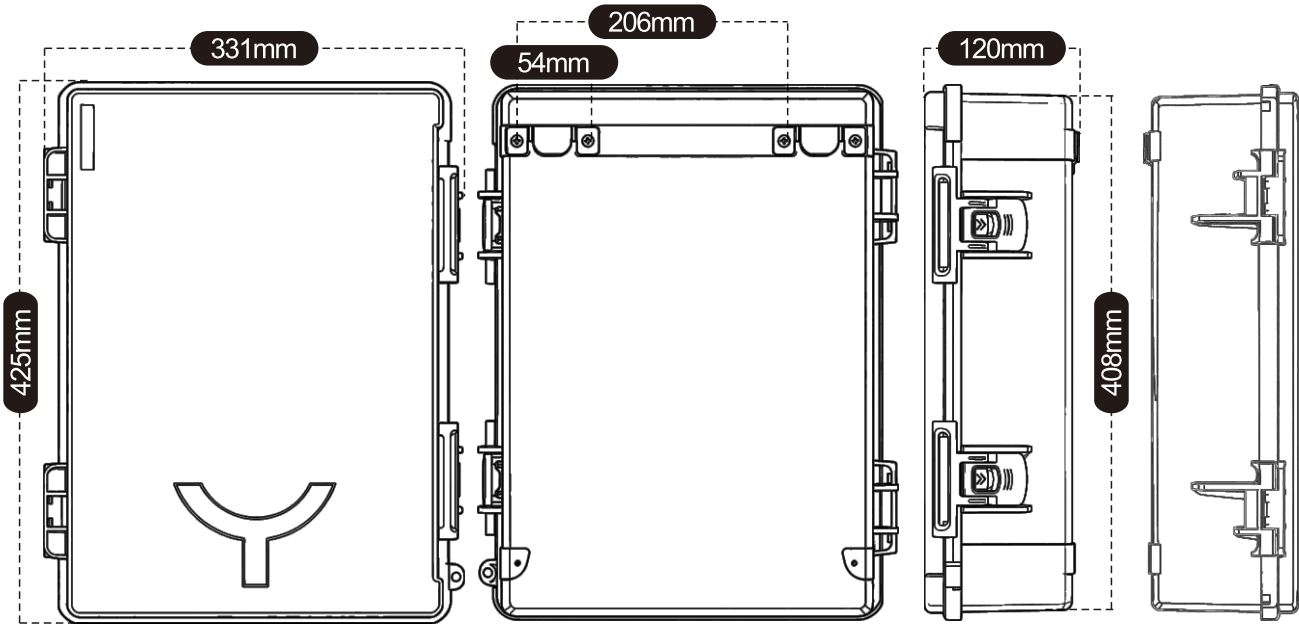


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data		
Model	LQX-N4/4DC500VBS	LQX-N4/4DC600VLS
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,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	425*331*120mm	

	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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

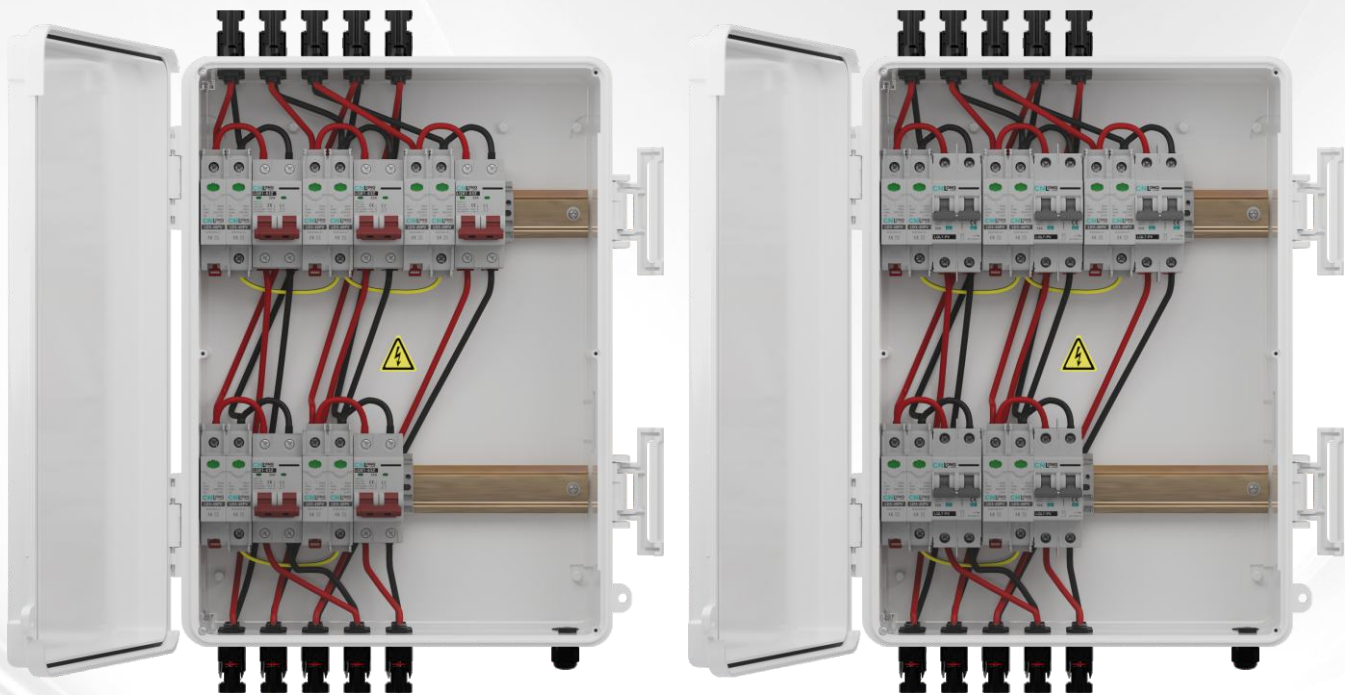
LQX-N5/5

CE ISO 9001 RoHS IEC IP68

CNLong.com

Lightning Protection Box

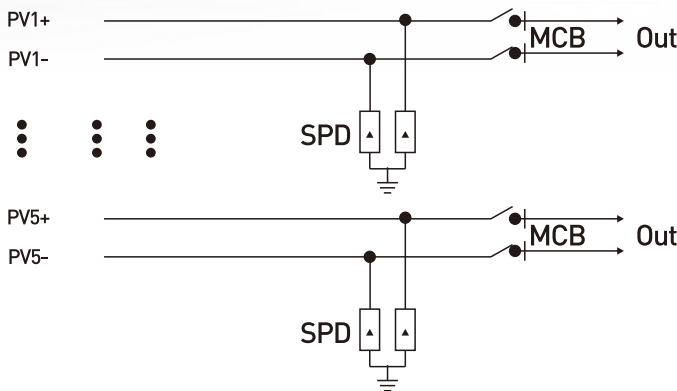
DC 500/600V 5in 5out



LQX-N5/5DC500VBS

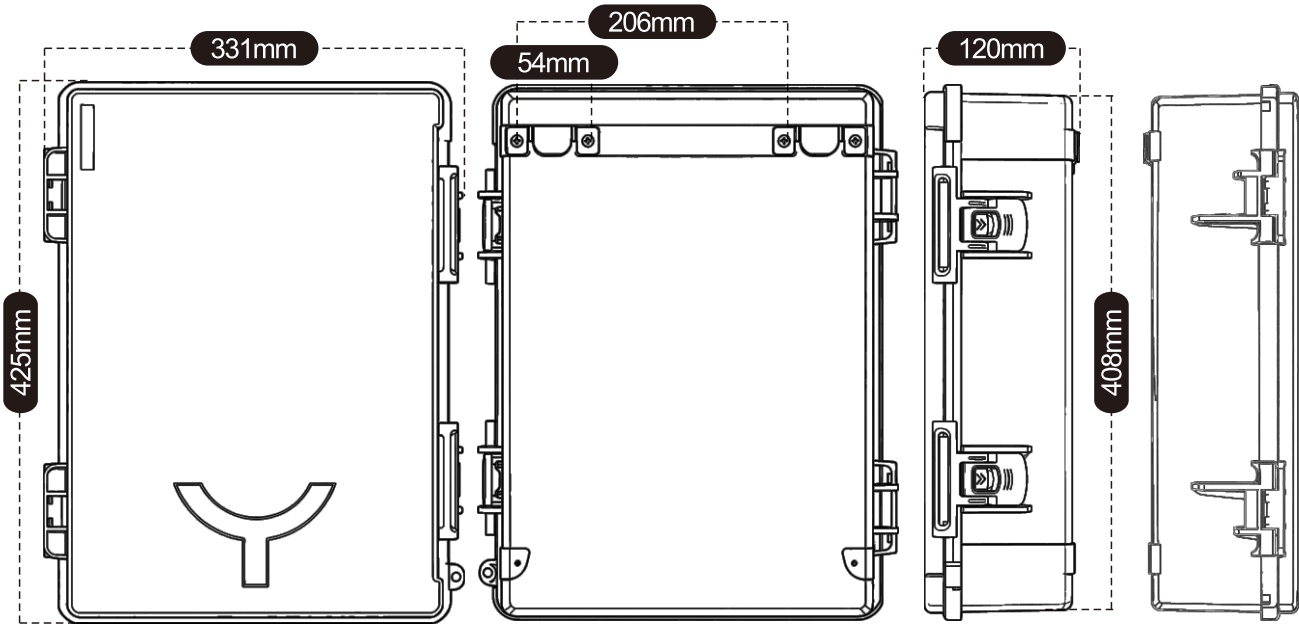
LQX-N5/5DC600VLS

- IP68 outdoor waterproof and sun resistant UV-resistant
- Short-circuit protection, overload protection, lightning protection, Isolation circuit
- PC housing, IK10 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-N5/5DC500VBS	LQX-N5/5DC600VLS
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,RoHS,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	425*331*120mm	

	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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

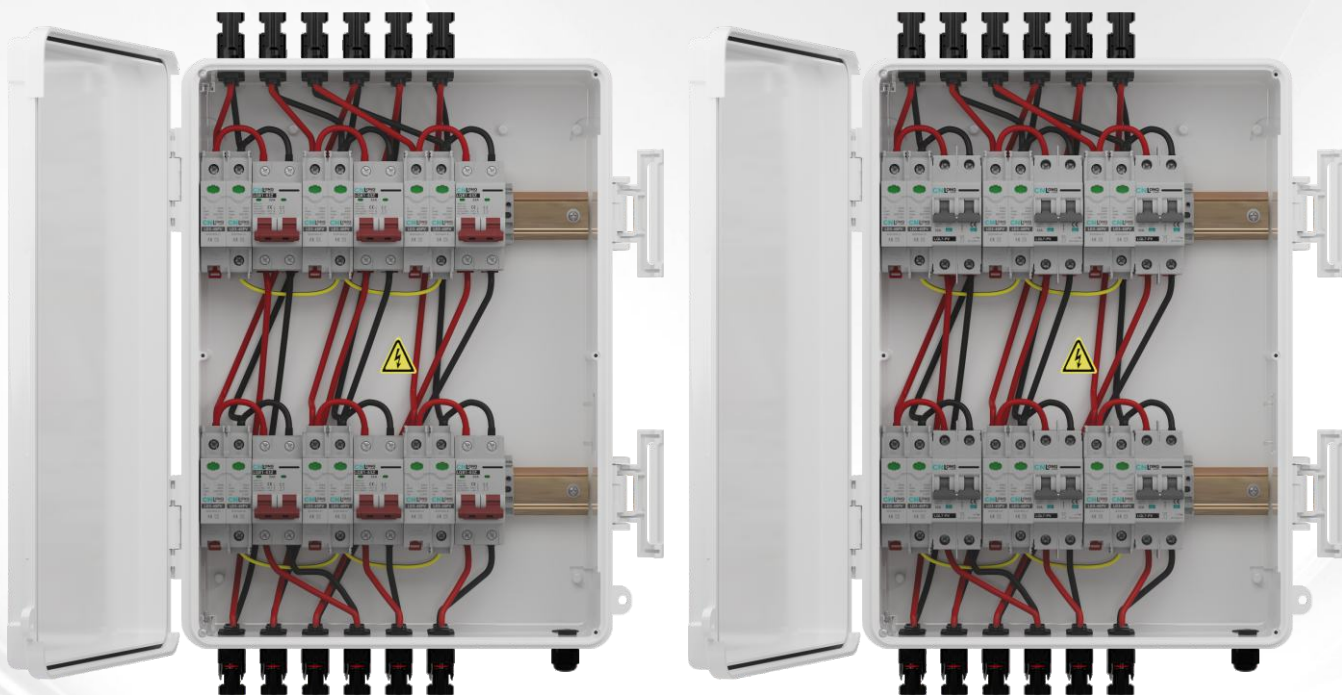
LQX-N6/6

CE  RoHS  IP68

CN  .com

Lightning Protection Box

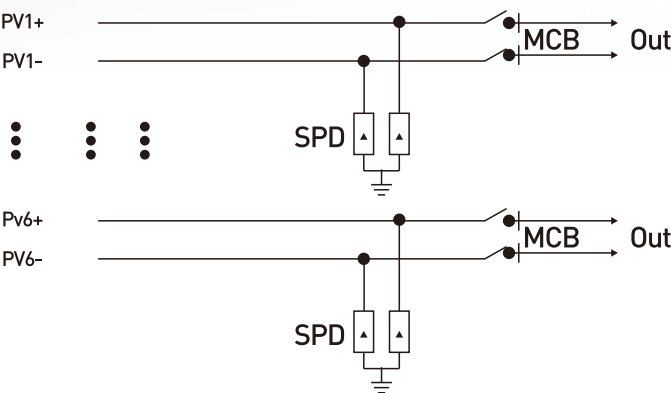
DC 500/600V 6in 6out



LQX-N6/6DC500VBS

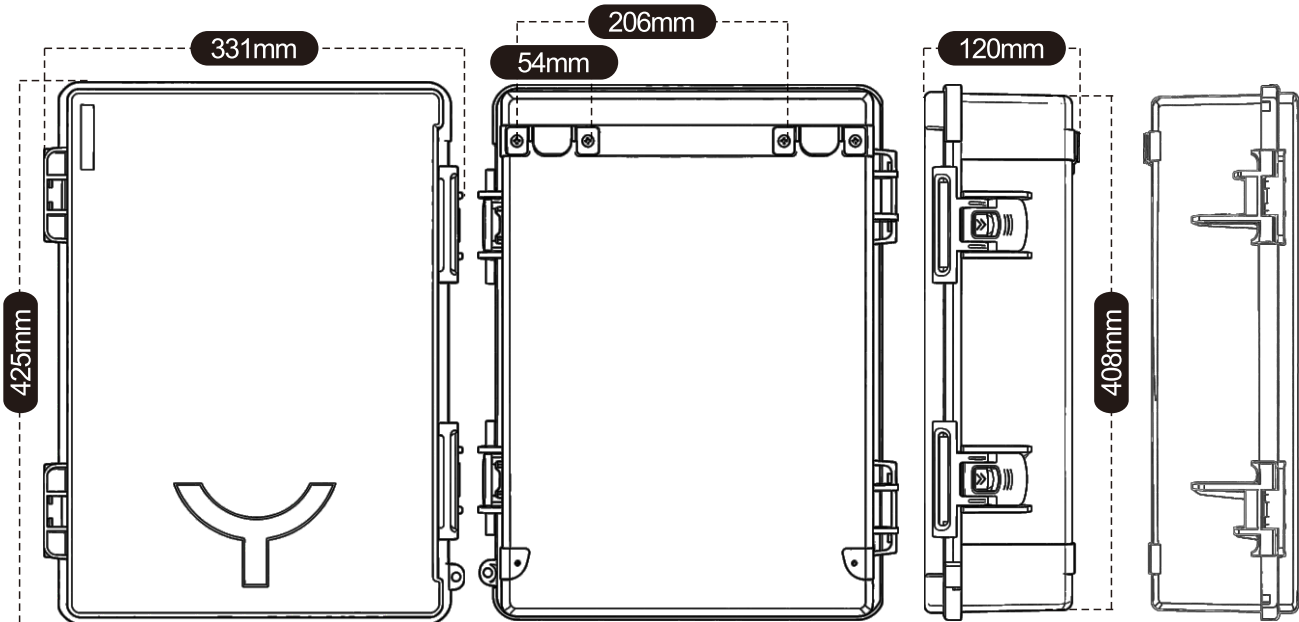
LQX-N6/6DC600VLS

-  IP68 outdoor waterproof and sun resistant UV-resistant
-  Short-circuit protection, overload protection, lightning protection, Isolation circuit
-  PC housing, IK10 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)

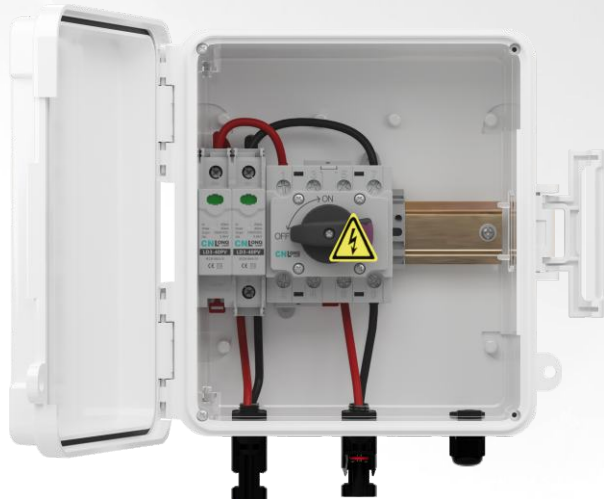


Technical data		
Model	LQX-N6/6DC500VBS	LQX-N6/6DC600VLS
String	6 in 6 out	
Rated Voltage Ue (V)	DC 500	DC 600
Rated current In(A)	16~125	16~63
Quality Certificate	CE,ISO9001,RoHS,IP68	
Protection Level	IP68	
Impact Level	IK10	
Box Material	PC	
Operating Temperature	-25°C ~ +60°C	
Humidity	≤95%	
Connector	MC4 or PG	
Installation	Installing Wall Hooks	
Altitude	2000m	
Dimension (without mounting connector)	425*331*120mm	

	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	Imax (8/20)us (kA)	40
Icu (kA)	6	Protection Level (kV)	2.2
standard	IEC 60947-2	standard	IEC 61643-31

Lightning Protection Box

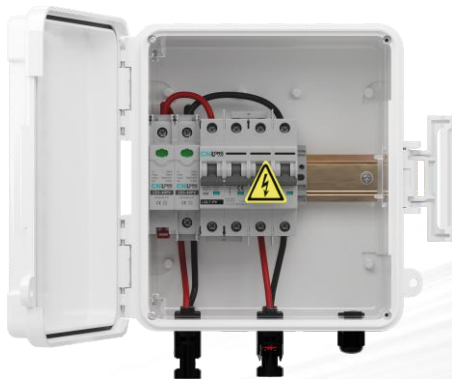
DC 1000V 1in 1out



LQX-N1/1DC1000VQS



LQX-N1/1DC1000VBS



LQX-N1/1DC1000VLS

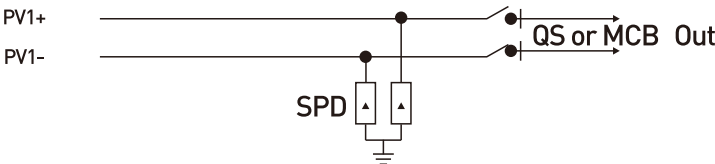
- 

IP68 outdoor waterproof and sun resistant UV-resistant
- 

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

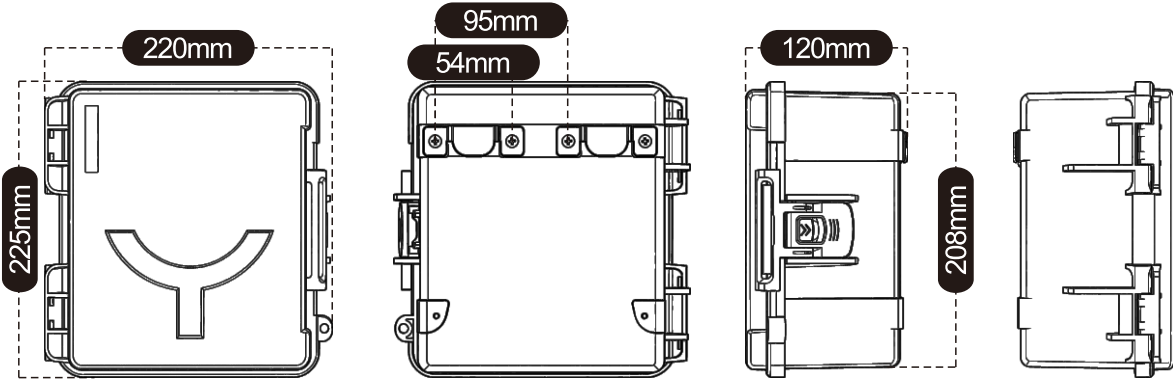
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data			
Model	LQX-N1/1DC1000VQS	DC1000VBS	DC1000VLS
String	1 in 1 out		
Rated Voltage Ue (V)	DC 1000		
Rated current In(A)	32	16~125	16~63
Quality Certificate	TUV,CE,ISO9001,RoHS,UKCA,CB,IP68		
Protection Level	IP68		
Impact Level	IK10		
Box Material	PC		
Operating Temperature	-25℃ ~ +60℃		
Humidity	≤95%		
Connector	MC4 or PG		
Installation	Installing Wall Hooks		
Altitude	2000m		
Dimension (without mounting connector)	225*220*120mm		

	QS	MCB B1/L7	SPD	
Rated Voltage Ue (V)	DC1200	DC1000/1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	DC1200/1500	In (8/20)us (kA)	20
Rated Current In(A)	32	16~125	I _{max} (8/20)us (kA)	40
Icu (kA)	/	6	Protection Level (kV)	3.6
standard	IEC 60947-3	IEC 60947-2	standard	IEC 61643-31

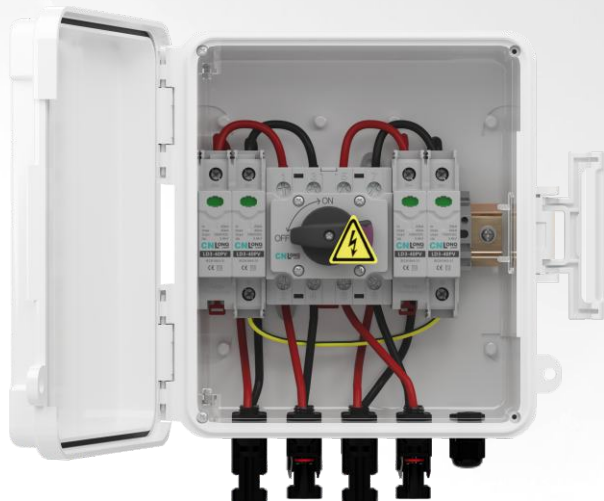
LQX-N2/2

TÜV Rheinland CE ISO 9001 RoHS IEC UKCA CB IP68

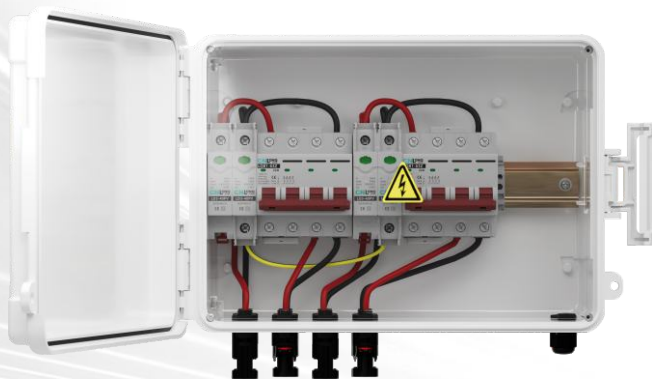
CNLongq.com

Lightning Protection Box

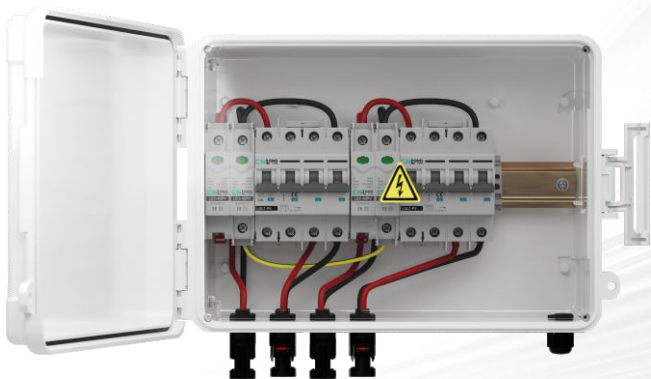
DC 1000V 2in 2out



LQX-N2/2DC1000VQS

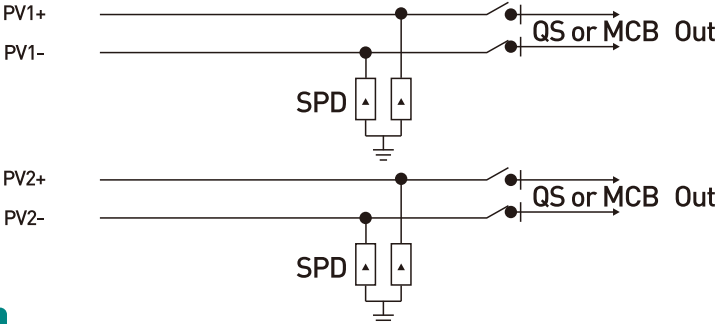


LQX-N2/2DC1000VBS



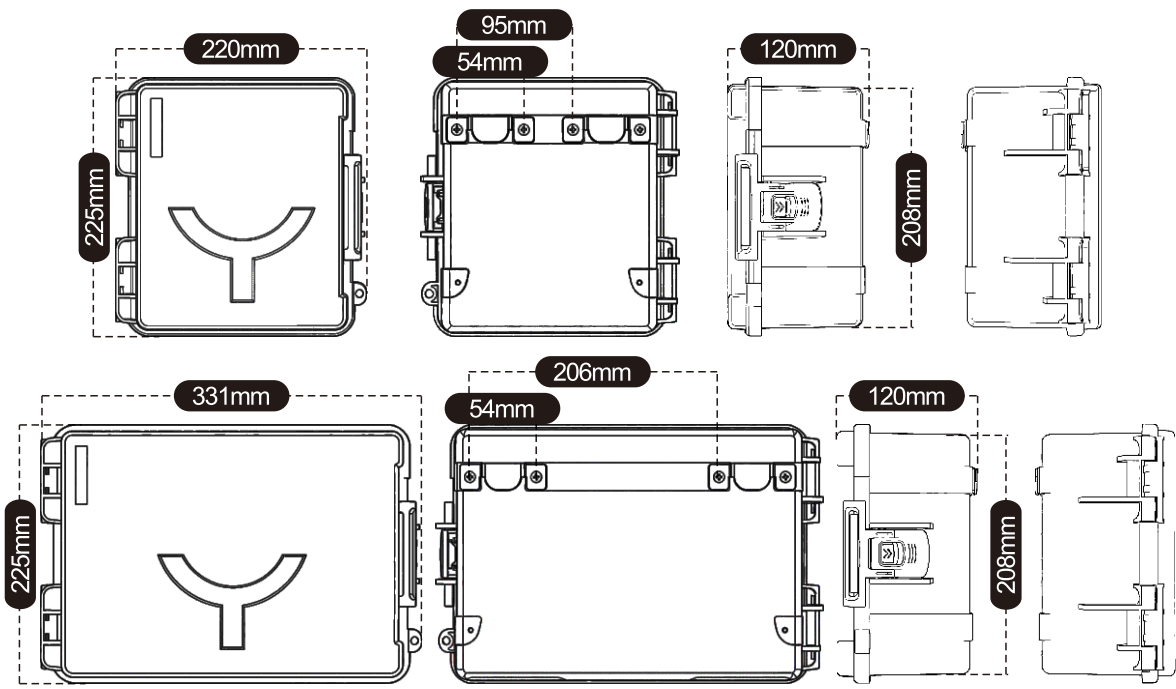
LQX-N2/2DC1000VLS

- IP68 outdoor waterproof and sun resistant UV-resistant
- Short-circuit protection, overload protection, lightning protection, Isolation circuit
- PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)

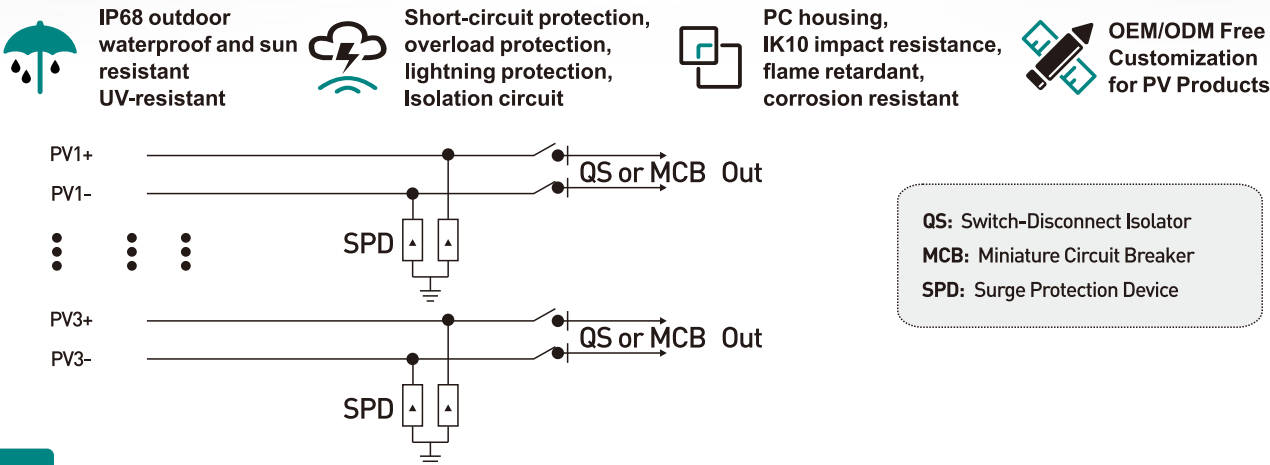
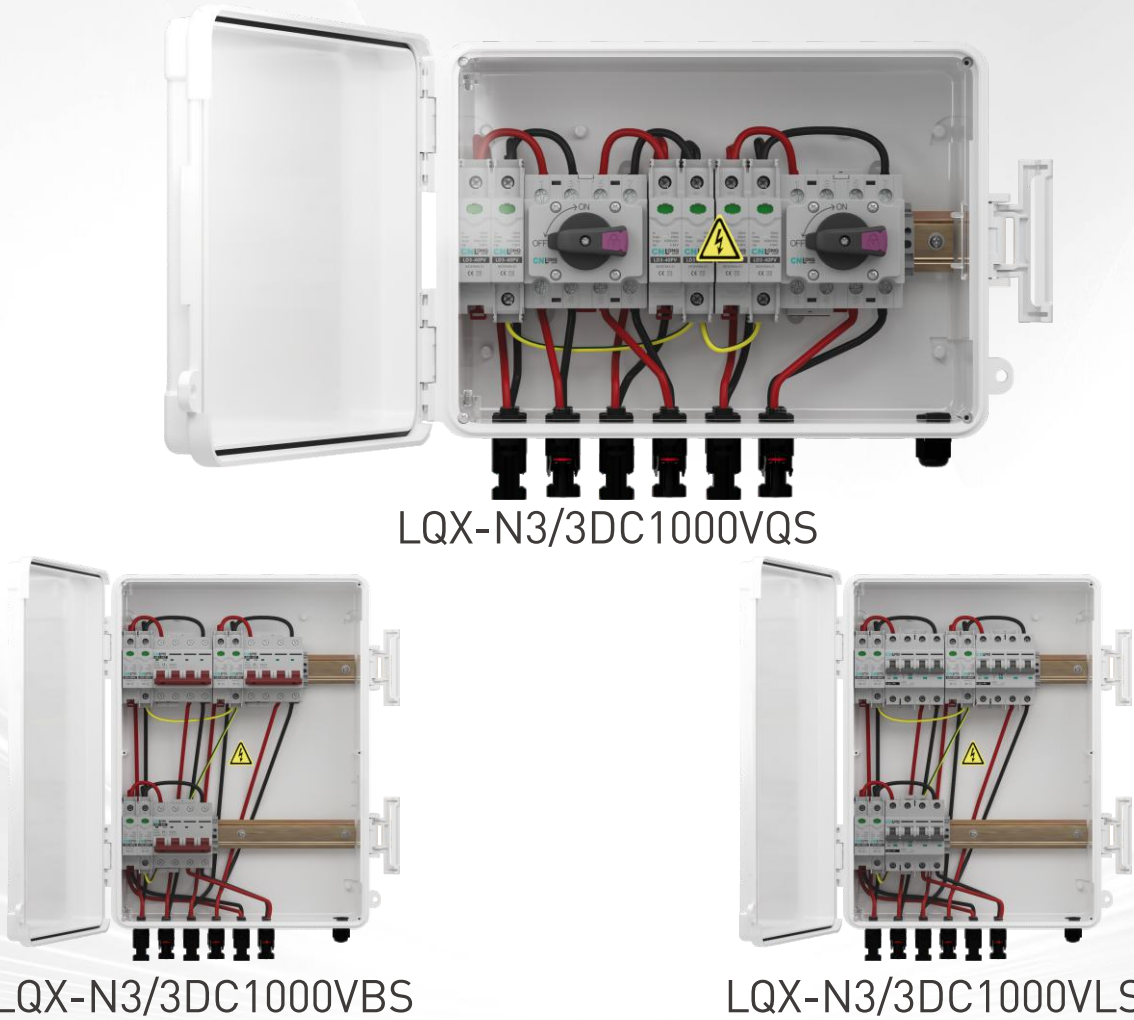


Technical data			
Model	LQX-N2/2DC1000VQS	DC1000VBS	DC1000VLS
String	2 in 2 out		
Rated Voltage Ue (V)	DC 1000		
Rated current In(A)	32	16~125	16~63
Quality Certificate	TUV,CE,ISO9001,RoHS,UKCA,CB,IP68		
Protection Level	IP68		
Impact Level	IK10		
Box Material	PC		
Operating Temperature	-25°C ~ +60°C		
Humidity	≤95%		
Connector	MC4 or PG		
Installation	Installing Wall Hooks		
Altitude	2000m		
Dimension (without mounting connector)	225*220*120mm(QS),225*331*120mm(BS and LS)		

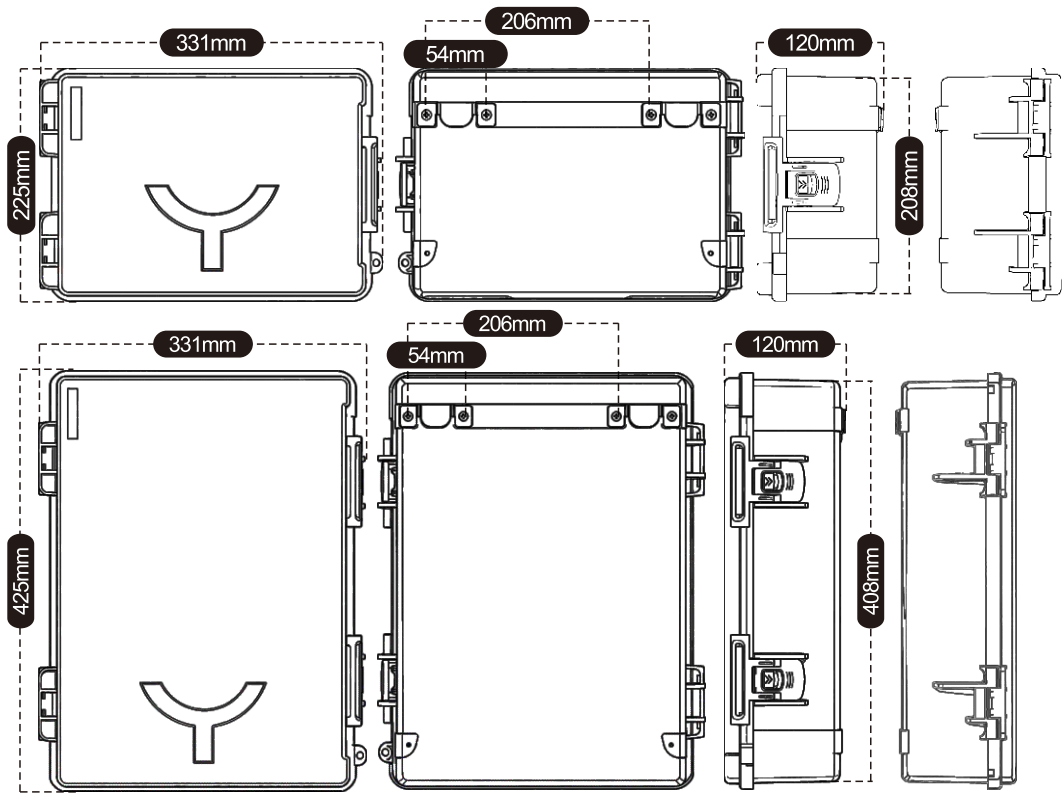
	QS	MCB B1/L7	SPD	
Rated Voltage Ue (V)	DC1200	DC1000/1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	DC1200/1500	In (8/20)us (kA)	20
Rated Current In(A)	32	16~125	Imax (8/20)us (kA)	40
Icu (kA)	/	6	Protection Level (kV)	3.6
standard	IEC 60947-3	IEC 60947-2	standard	IEC 61643-31

Lightning Protection Box

DC 1000V 3in 3out



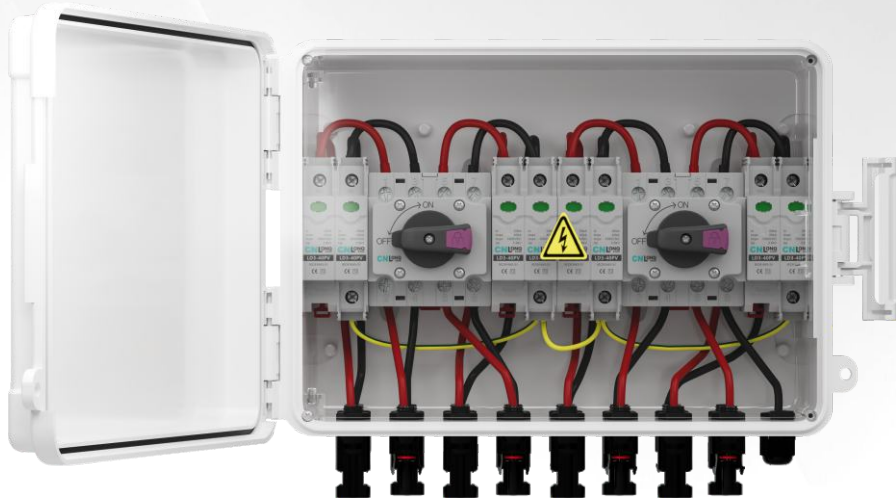
Product Dimension Drawing (mm)



Technical data					
Model		LQX-N3/3DC1000VQS		DC1000VBS	DC1000VLS
String		3 in 3 out			
Rated Voltage Ue (V)		DC 1000			
Rated current In(A)		32		16~125	16~63
Quality Certificate		TUV,CE,ISO9001,RoHS,UKCA,CB,IP68			
Protection Level		IP68			
Impact Level		IK10			
Box Material		PC			
Operating Temperature		-25°C ~ +60°C			
Humidity		≤95%			
Connector		MC4 or PG			
Installation		Installing Wall Hooks			
Altitude		2000m			
Dimension (without mounting connector)		225*331*120mm(QS),425*331*120mm(BS and LS)			
QS		MCB B1/L7		SPD	
Rated Voltage Ue (V)	DC1200	DC1000/1200		Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	DC1200/1500		In (8/20)us (kA)	20
Rated Current In(A)	32	16~125		I _{max} (8/20)us (kA)	40
I _{cu} (kA)	/	6		Protection Level (kV)	3.6
standard	IEC 60947-3	IEC 60947-2		standard	IEC 61643-31

Lightning Protection Box

DC 1000V 4in 4out



LQX-N4/4DC1000VQS

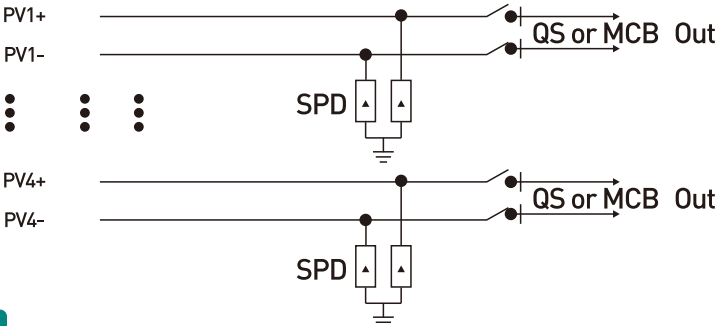


LQX-N4/4DC1000VBS



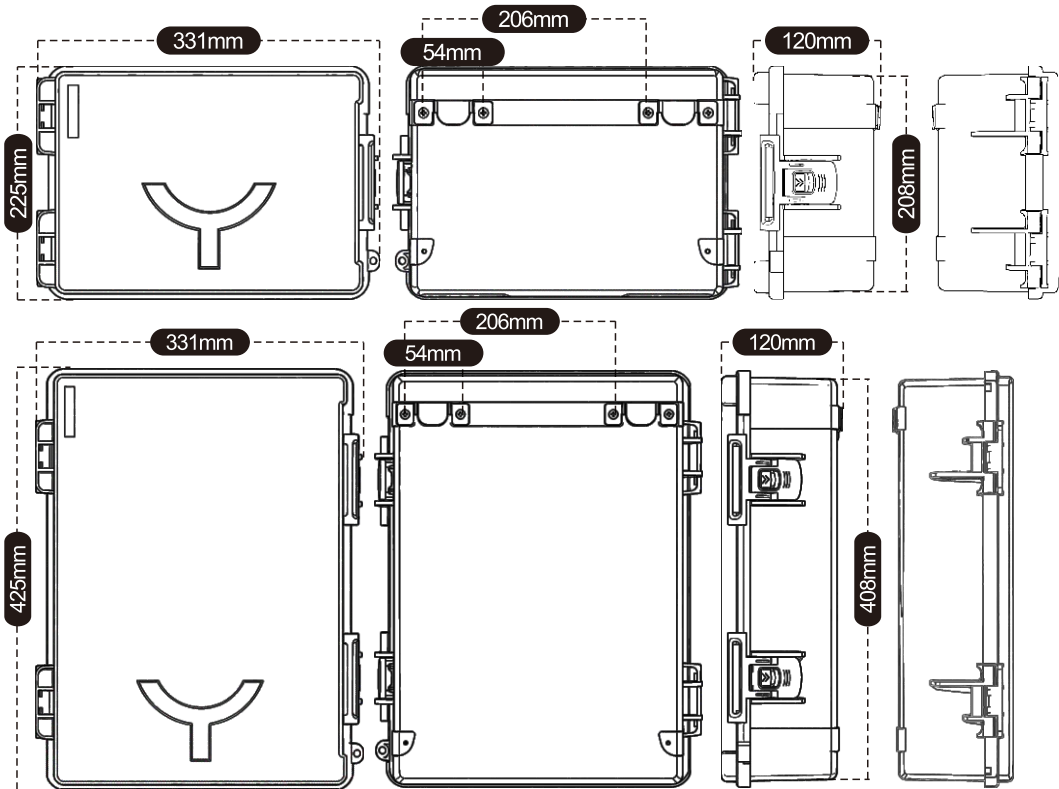
LQX-N4/4DC1000VLS

- IP68 outdoor waterproof and sun resistant UV-resistant
- Short-circuit protection, overload protection, lightning protection, Isolation circuit
- PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data					
Model		LQX-N4/4DC1000VQS		DC1000VBS	DC1000VLS
String		4 in 4 out			
Rated Voltage Ue (V)		DC 1000			
Rated current In(A)		32		16~125	16~63
Quality Certificate		TUV,CE,ISO9001,RoHS,UKCA,CB,IP68			
Protection Level		IP68			
Impact Level		IK10			
Box Material		PC			
Operating Temperature		-25°C ~ +60°C			
Humidity		≤95%			
Connector		MC4 or PG			
Installation		Installing Wall Hooks			
Altitude		2000m			
Dimension (without mounting connector)		225*331*120mm(QS),425*331*120mm(BS and LS)			
QS		MCB B1/L7		SPD	
Rated Voltage Ue (V)	DC1200	DC1000/1200		Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	DC1200/1500		In (8/20)us (kA)	20
Rated Current In(A)	32	16~125		I _{max} (8/20)us (kA)	40
I _{cu} (kA)	/	6		Protection Level (kV)	3.6
standard	IEC 60947-3	IEC 60947-2		standard	IEC 61643-31

LQX-N5/5











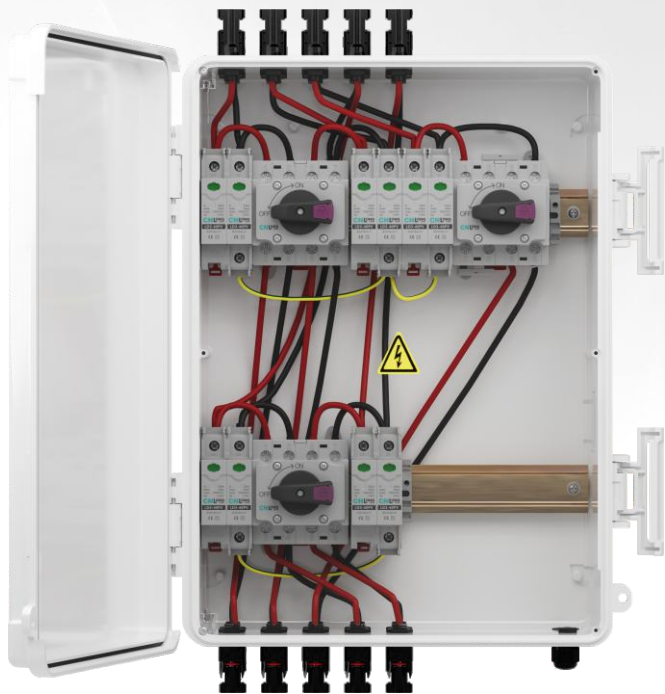




IP68

Lightning Protection Box

DC 1000V 5in 5out



LQX-N5/5DC1000VQS

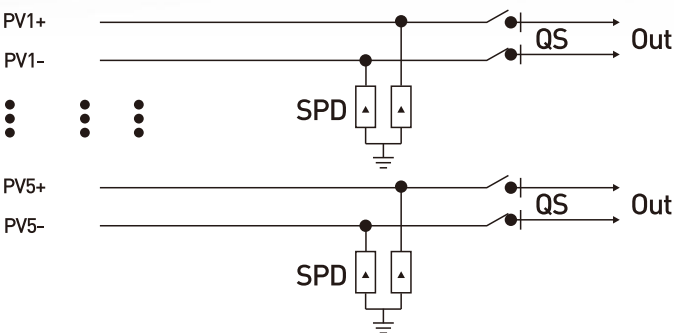
- 

IP68 outdoor waterproof and sun resistant UV-resistant
- 

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

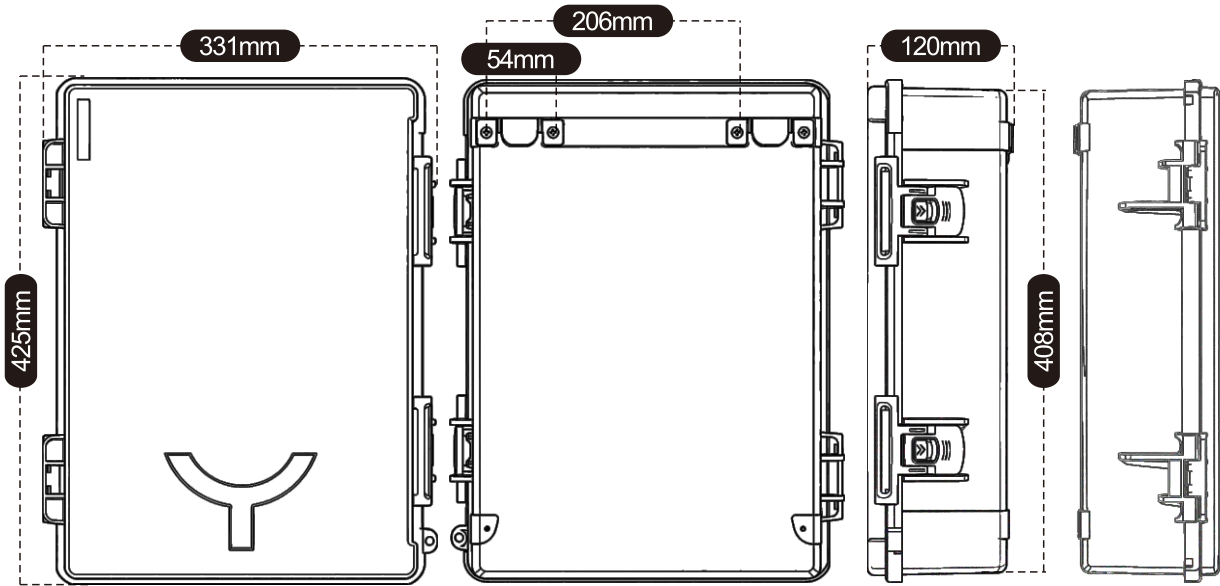
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N5/5DC1000VQS
String	5 in 5 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	32
Quality Certificate	TUV,CE,ISO9001,RoHS,UKCA,CB,IP68
Protection Level	IP68
Impact Level	IK10
Box Material	PC
Operating Temperature	-25°C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Installing Wall Hooks
Altitude	2000m
Dimension (without mounting connector)	425*331*120mm

	QS		SPD
Rated Voltage Ue (V)	DC1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	In (8/20)us (kA)	20
Rated Current In(A)	32	Imax (8/20)us (kA)	40
Uimp (kV)	8	Protection Level (kV)	3.6
standard	IEC 60947-3	standard	IEC 61643-31

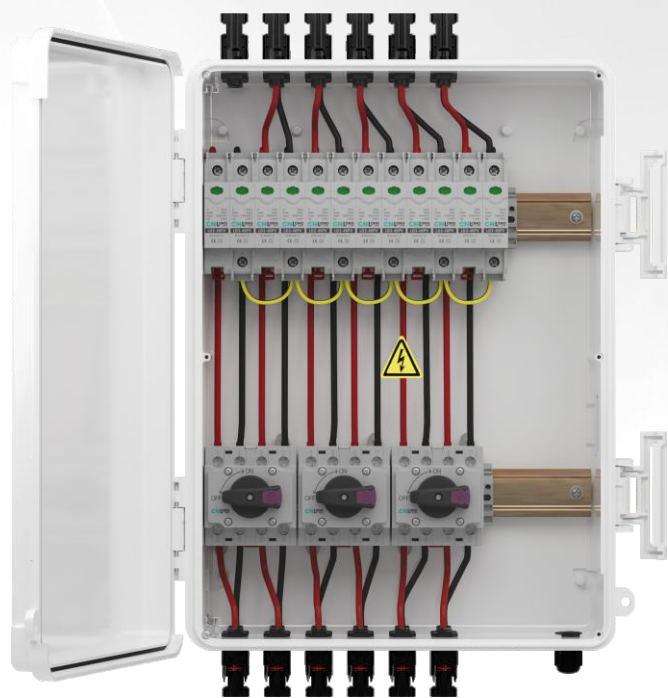
LQX-N6/6

TÜV Rheinland CE ISO 9001 RoHS IEC UK CA CB IP68

CN LONG.com

Lightning Protection Box

DC 1000V 6in 6out



LQX-N6/6DC1000VQS

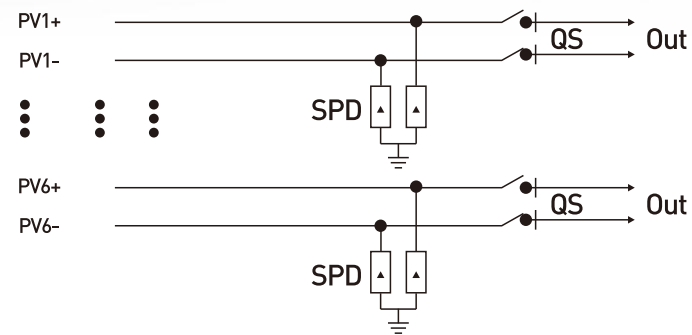
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IP68 outdoor waterproof and sun resistant UV-resistant
- 

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

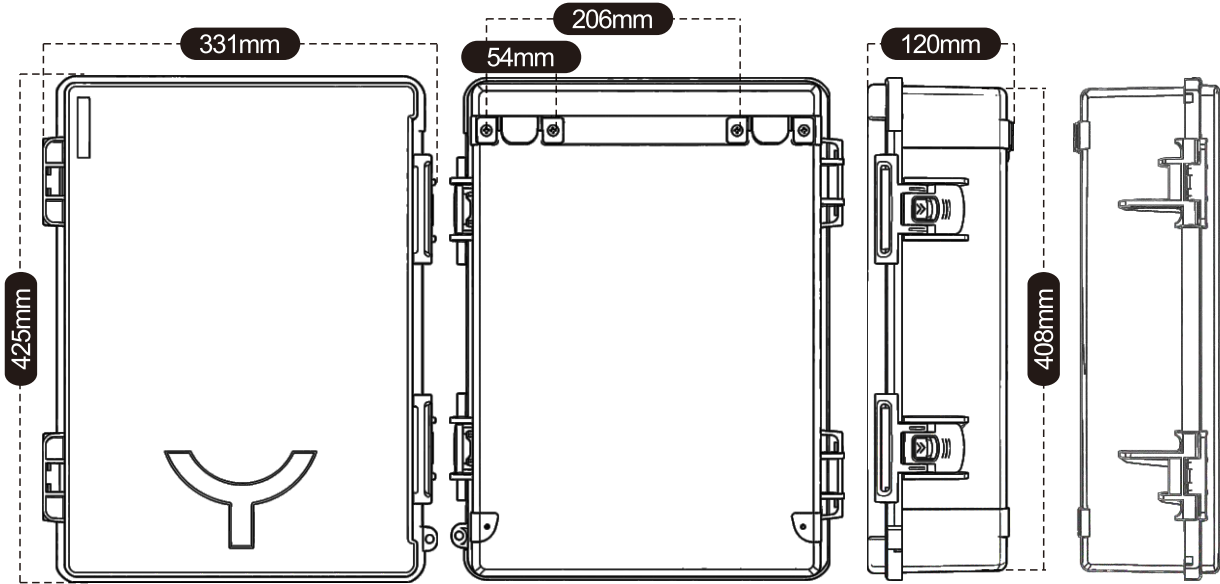
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
- 

OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N6/6DC1000VQS
String	6 in 6 out
Rated Voltage Ue (V)	DC 1000
Rated current In(A)	32
Quality Certificate	TUV,CE,ISO9001,RoHS,UKCA,CB,IP68
Protection Level	IP68
Impact Level	IK10
Box Material	PC
Operating Temperature	-25°C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Installing Wall Hooks
Altitude	2000m
Dimension (without mounting connector)	425*331*120mm

	QS		SPD
Rated Voltage Ue (V)	DC1200	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	In (8/20)us (kA)	20
Rated Current In(A)	32	Imax (8/20)us (kA)	40
Uimp (kV)	8	Protection Level (kV)	3.6
standard	IEC 60947-3	standard	IEC 61643-31