

AC DC Hybrid Distribution Box LQX/LQT Series



DC500V~1500V AC110~400V 16~800A 1~32 Strings

CNLOQ AC/DC Combiner Boxes are compact, high-performance units that consolidate multiple DC string inputs while simultaneously managing AC branch distribution. They incorporate overcurrent protection, surge arresters, and fuse short-circuit safeguards, all housed in an IP68/65-rated enclosure for reliable outdoor operation. These boxes serve as the central interface between solar panels, batteries, and inverters, simplifying cabling, enhancing system protection, and boosting overall energy efficiency with minimal maintenance.



IP68/65 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



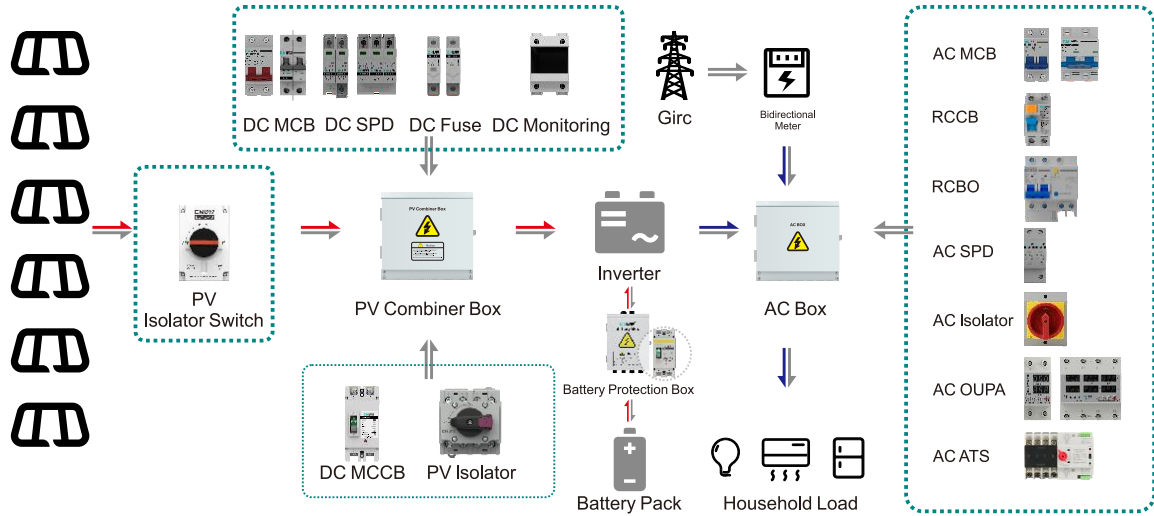
OEM/ODM Free Customization for PV Products

Company Profile

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

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-N2/2-2/2

CE ISO 9001 R&HS IEC IP68

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DC/AC Combiner Box

DC500/600V AC230/400V



LQX-N2/2DC500VB1-2/2AC230/400V-MP



IP68 outdoor waterproof and sun resistant UV-resistant



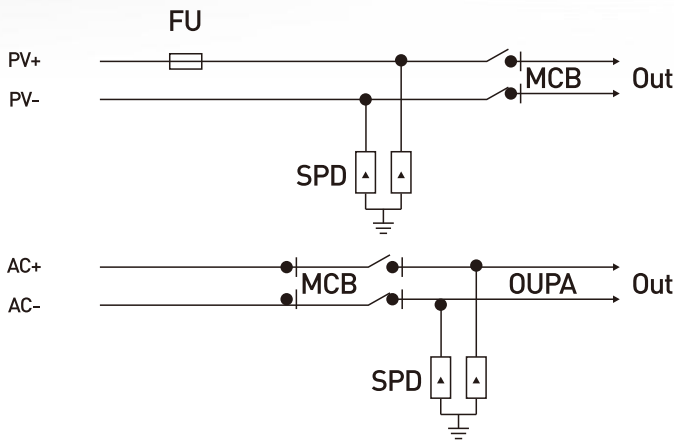
Short-circuit protection, overload protection, lightning protection, Isolation circuit



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

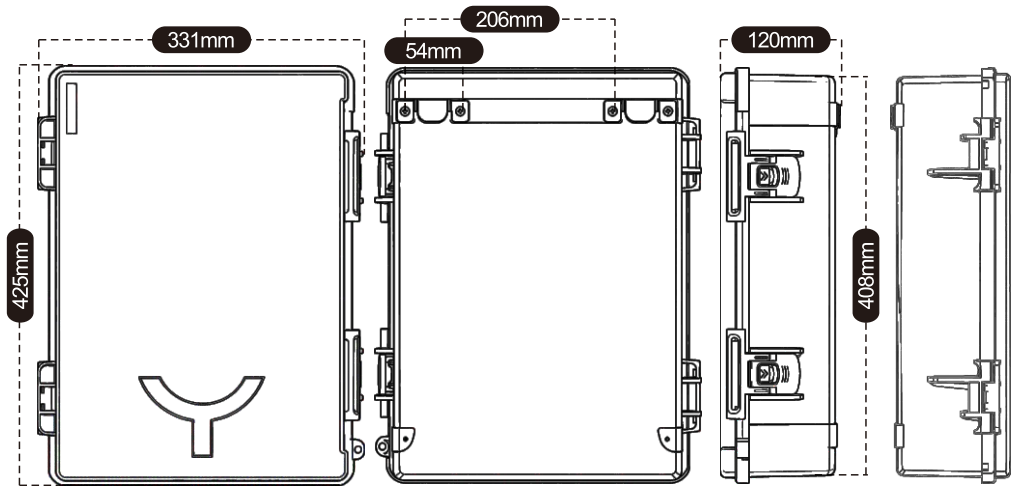


OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device
OUPA: Overvoltage, Undervoltage, and Overcurrent Protector

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N2/2DC500VB1(600VL7)-2/2AC230/400V-MP
String	DC 2in 2out, AC 2in 2out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~125
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

DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB		AC SPD		AC OUPA	
Rated Voltage Ue (V)	AC230/400	Rated Voltage Ue (V)	AC275V	>U setting range(V)	AC130~300
Rated Current In(A)	16~125	In (8/20)us (kA)	20	<U setting range(V)	AC80~210
Rated Frequency (Hz)	50/60	Imax (8/20)us (kA)	40	Rated Current In(A)	1~40/63/80
Icu (kA)	6	Protection Level (kV)	2.0	Rated Frequency (Hz)	50/60
standard	IEC 60898-1	standard	IEC 61643-11	standard	IEC 60255-127

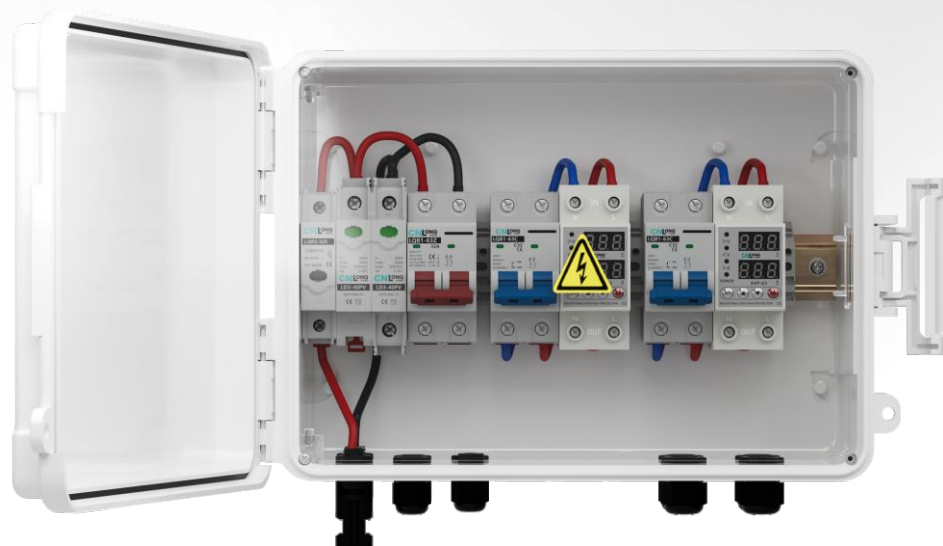
LQX-N1/1-2/2BA

CE ISO 9001 RoHS IEC IP68

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DC/AC Combiner Box

DC500/600V AC230/400V



LQX-N1/1DC500VB1-2/2AC230/400VBA-MP

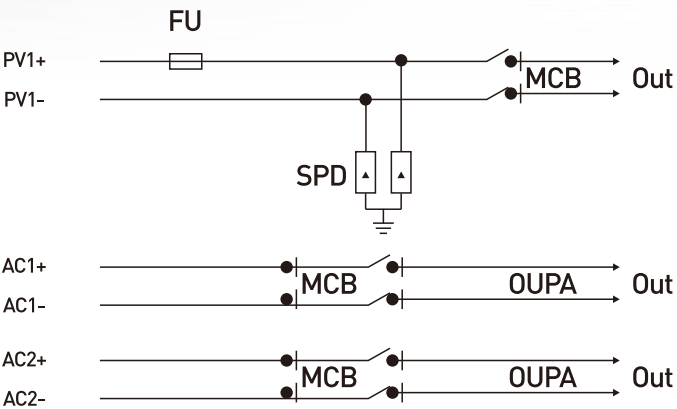
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IP68 outdoor waterproof and sun resistant UV-resistant
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Short-circuit protection, overload protection, lightning protection, Isolation circuit
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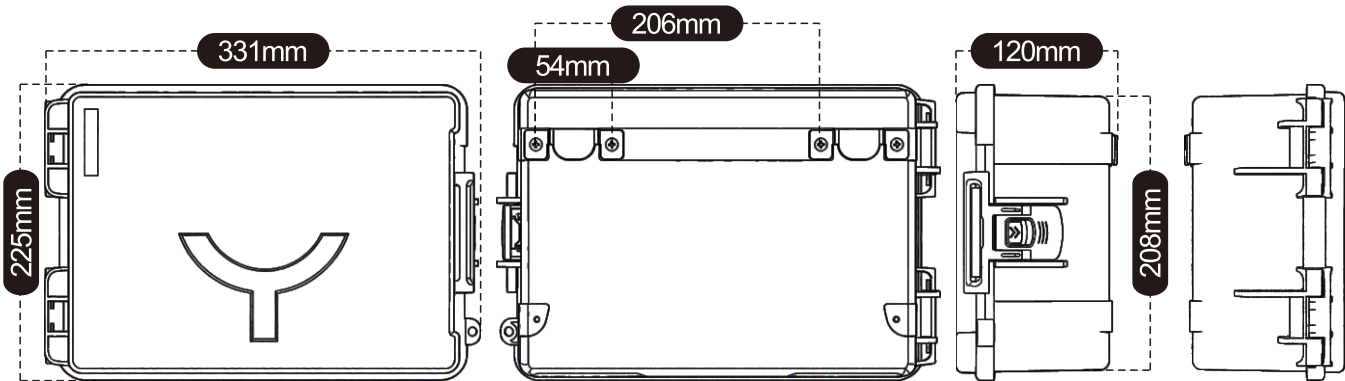
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device
OUPA: Overvoltage, Undervoltage, and Overcurrent Protector

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N1/1DC500VB1(600VL7)-2/2AC230/400VBA-MP
String	DC 1in 1out, AC 2in 2out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~125
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

DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB		AC OUPA			
Rated Voltage Ue (V)	AC230/400	>U setting range(V)	AC130~300		
Rated Current In(A)	16~125	<U setting range(V)	AC80~210		
Rated Frequency (Hz)	50/60	Rated Current In(A)	1~40/63/80		
Icu (kA)	6	Rated Frequency (Hz)	50/60		
standard	IEC 60898-1	standard	IEC 60255-127		

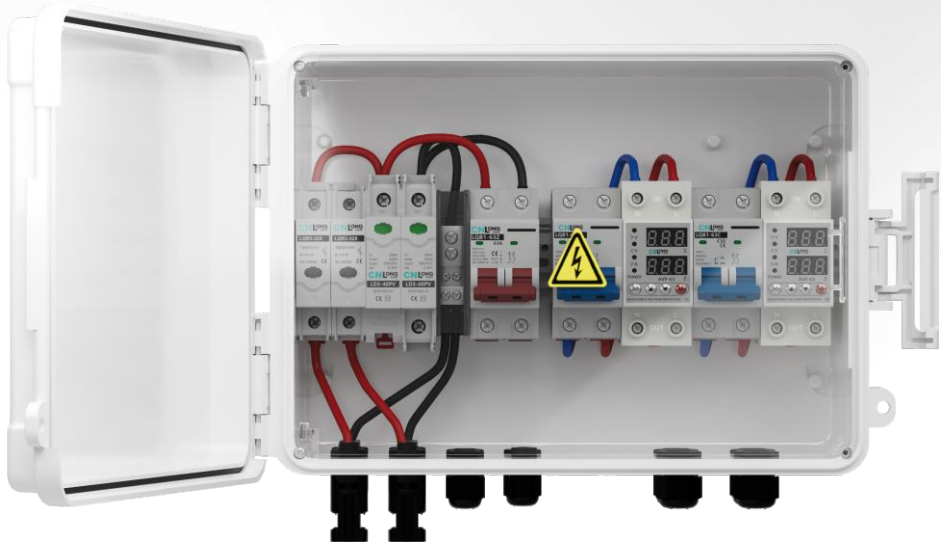
LQX-N2/1-2/2BA

CE ISO 9001 RoHS IEC IP68

CNLong.com

DC/AC Combiner Box

DC500/600V AC230/400V



LQX-N2/1DC500VB1-2/2AC230/400VBA-MP

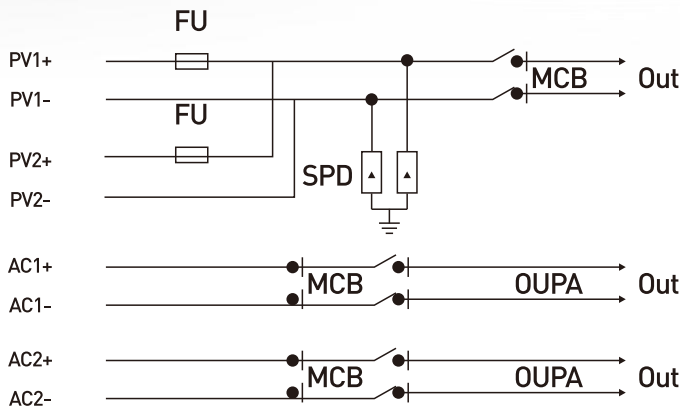
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IP68 outdoor waterproof and sun resistant UV-resistant
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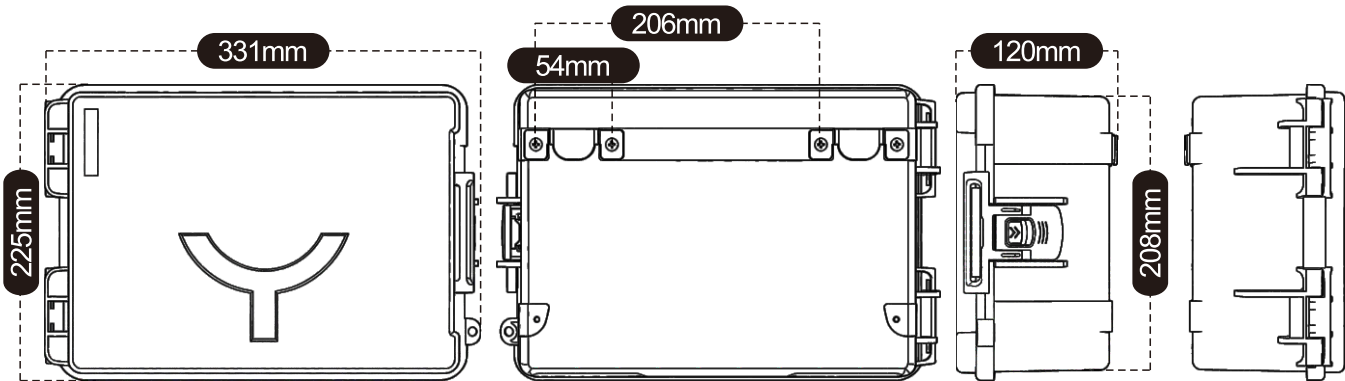
Short-circuit protection, overload protection, lightning protection, Isolation circuit
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PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



Product Dimension Drawing (mm)



Technical data	
Model	LQX-N2/1DC500VB1(600VL7)-2/2AC230/400VBA-MP
String	DC 2in 1out, AC 2in 2out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~125
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

DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB		AC OUPA			
Rated Voltage Ue (V)	AC230/400	>U setting range(V)	AC130~300		
Rated Current In(A)	16~125	<U setting range(V)	AC80~210		
Rated Frequency (Hz)	50/60	Rated Current In(A)	1~40/63/80		
Icu (kA)	6	Rated Frequency (Hz)	50/60		
standard	IEC 60898-1	standard	IEC 60255-127		

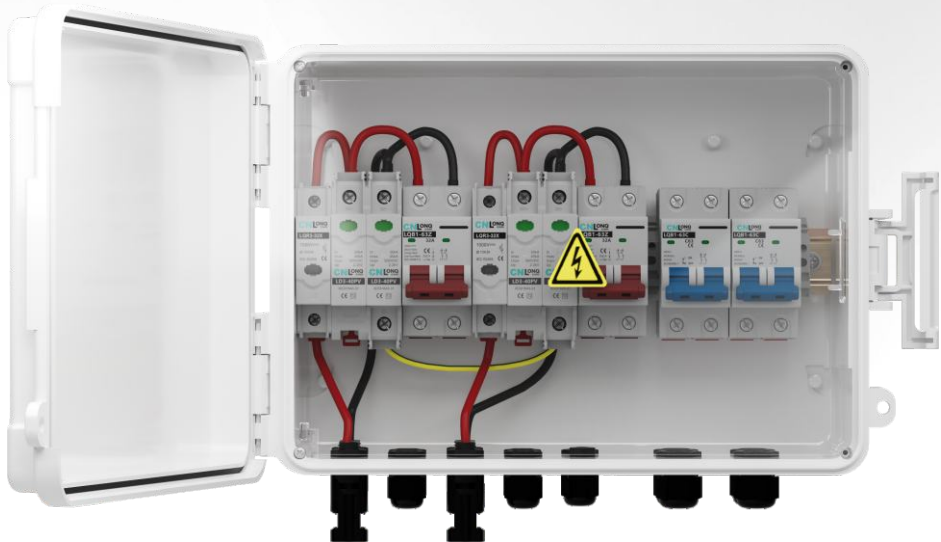
LQX-N2/2-2/2BB

CE ISO 9001 RoHS IEC IP68

CNLong.com

DC/AC Combiner Box

DC500/600V AC230/400V



LQX-N2/2DC500VB1-2/2AC230/400VBB-MP

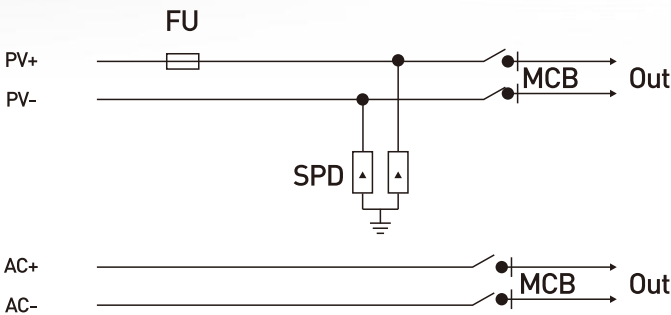
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IP68 outdoor waterproof and sun resistant UV-resistant
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Short-circuit protection, overload protection, lightning protection, Isolation circuit
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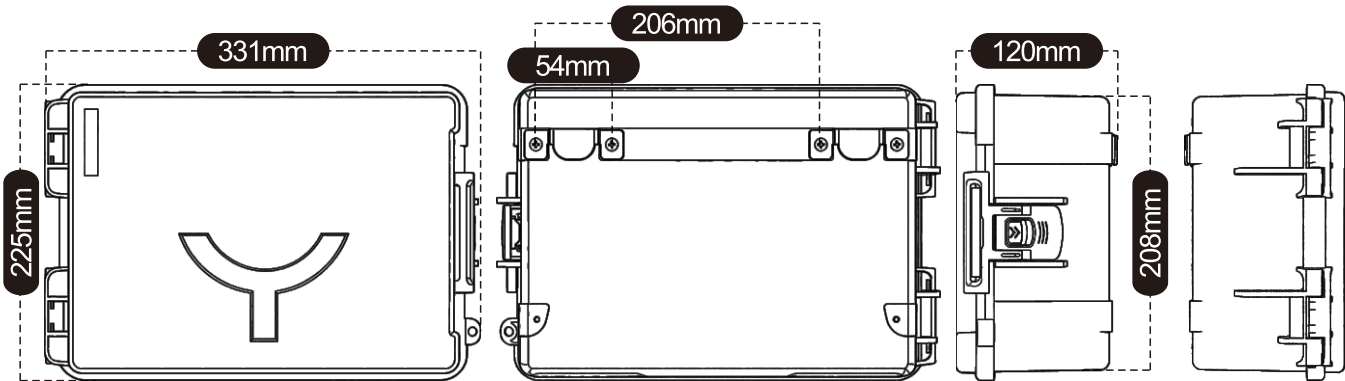
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N2/2DC500VB1(600VL7)-2/2AC230/400VBB-MP
String	DC 1in 1out, AC 2in 2out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~125
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

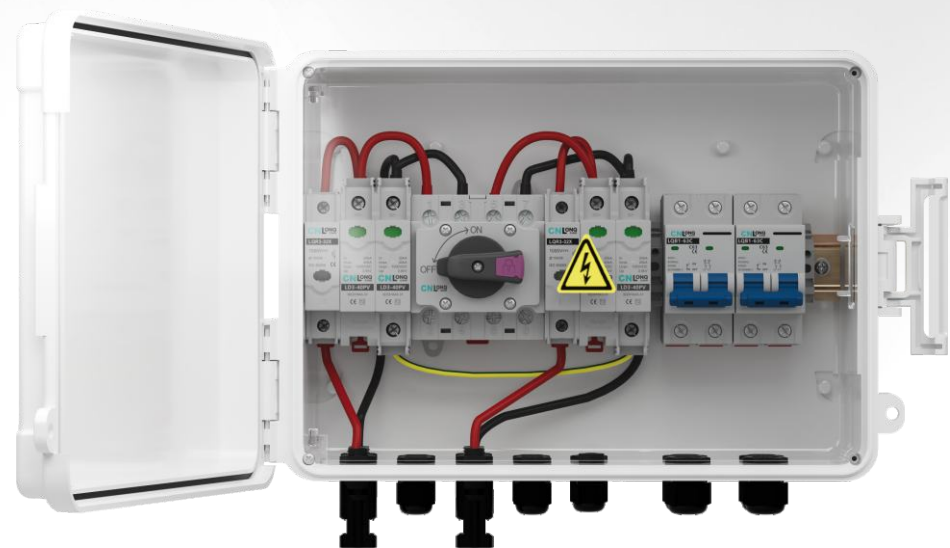
DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB					
Rated Voltage Ue (V)	AC230/400				
Rated Current In(A)	16~125				
Rated Frequency (Hz)	50/60				
Icu (kA)	6				
standard	IEC 60898-1				

LQX-N2/2-2/2BB



DC/AC Combiner Box

DC1000V AC230/400V



LQX-N2/2DC1000VQ-2/2AC230/400VBB-MP

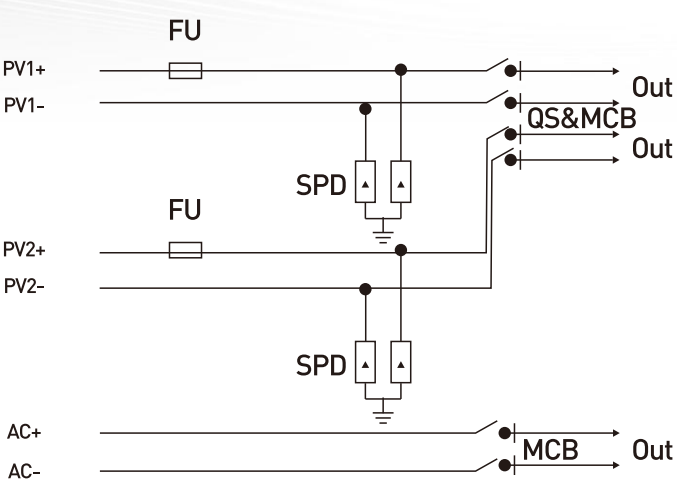
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IP68 outdoor waterproof and sun resistant UV-resistant
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Short-circuit protection, overload protection, lightning protection, Isolation circuit
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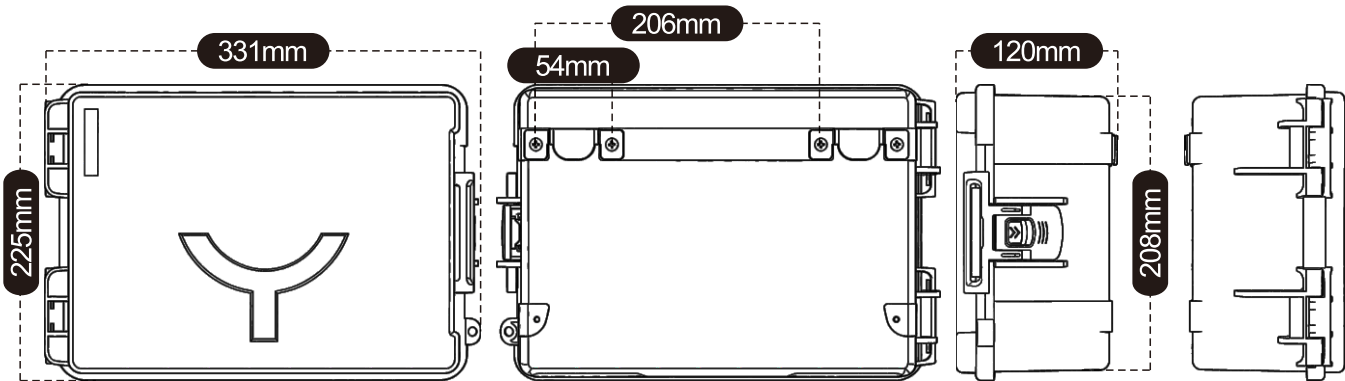
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



QS: Switch-Disconnect Isolator
MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device

Product Dimension Drawing (mm)



Technical data	
Model	LQX-N2/2DC1000VQ-2/2AC230/400VBB-MP
String	DC 2in 2out, AC 2in 2out
Rated Voltage Ue (V)	DC1000V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC32, AC16~125
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

DC QS		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC1200	Rated Voltage Ue (V)	DC1000	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1500	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	32	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Uimp (kV)	8	Protection Level (kV)	3.6	Standard	IEC60269
standard	IEC 60947-3	standard	IEC 61643-31		
AC MCB					
Rated Voltage Ue (V)	AC230/400				
Rated Current In(A)	16~125				
Rated Frequency (Hz)	50/60				
Icu (kA)	6				
standard	IEC 60898-1				

LQX-1/1-1/1

CE

RoHS

IEC

IP65

DC/AC Combiner Box

DC500/600V AC230/400V



LQX-1/1DC500VB1-1/1AC230/400V-PP

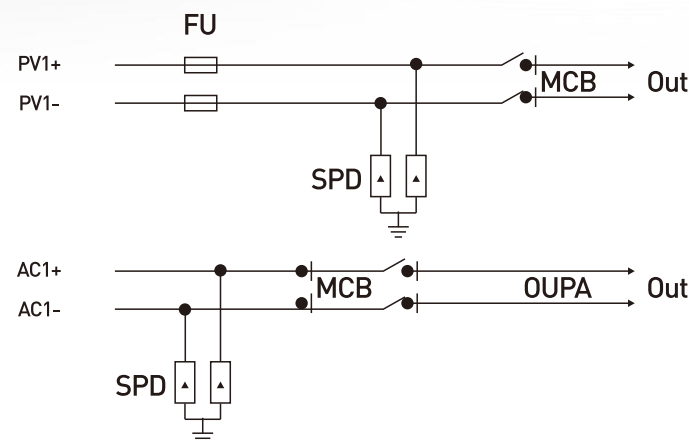
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IP68 outdoor waterproof and sun resistant
UV-resistant
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Short-circuit protection, overload protection, lightning protection, Isolation circuit
- 

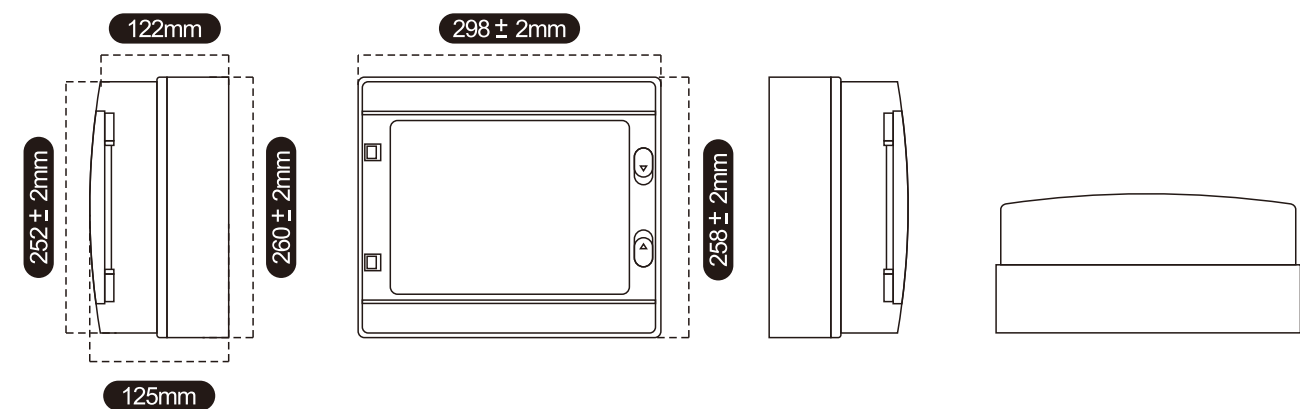
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device
OUPA: Overvoltage, Undervoltage, and Overcurrent Protector

Product Dimension Drawing (mm)



Technical data	
Model	LQX-1/1DC500VB1(600VL7)-1/1AC230/400V-PP
String	DC 1in 1out, AC 1in 1out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~125
Quality Certificate	CE,ISO9001,RoHS,IP65
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25°C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Installing Wall Hooks
Altitude	2000m
Dimension (without mounting connector)	258*298*125mm

DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB		AC SPD		AC OUPA	
Rated Voltage Ue (V)	AC230/400	Rated Voltage Ue (V)	AC275V	>U setting range(V)	AC130~300
Rated Current In(A)	16~125	In (8/20)us (kA)	20	<U setting range(V)	AC80~210
Rated Frequency (Hz)	50/60	Imax (8/20)us (kA)	40	Rated Current In(A)	1~40/63/80
Icu (kA)	6	Protection Level (kV)	2.0	Rated Frequency (Hz)	50/60
standard	IEC 60898-1	standard	IEC 61643-11	standard	IEC 60255-127

LQX-2/2-1/1

CE ISO 9001 RoHS IEC IP65

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DC/AC Combiner Box

DC500/600V AC230/400V



LQX-2/2DC500VB1-1/1AC230/400V-PP

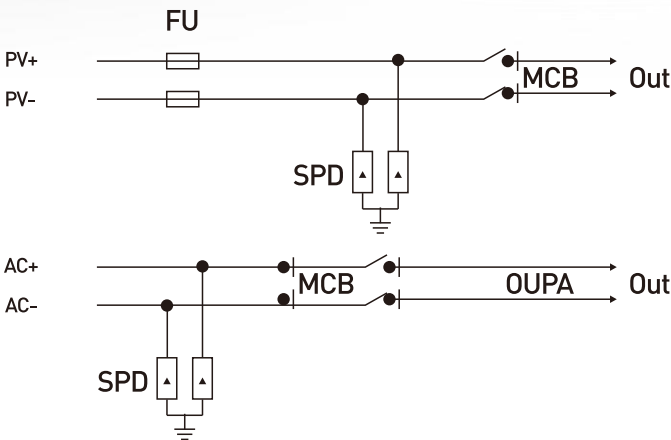
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IP68 outdoor waterproof and sun resistant
UV-resistant
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Short-circuit protection, overload protection, lightning protection, Isolation circuit
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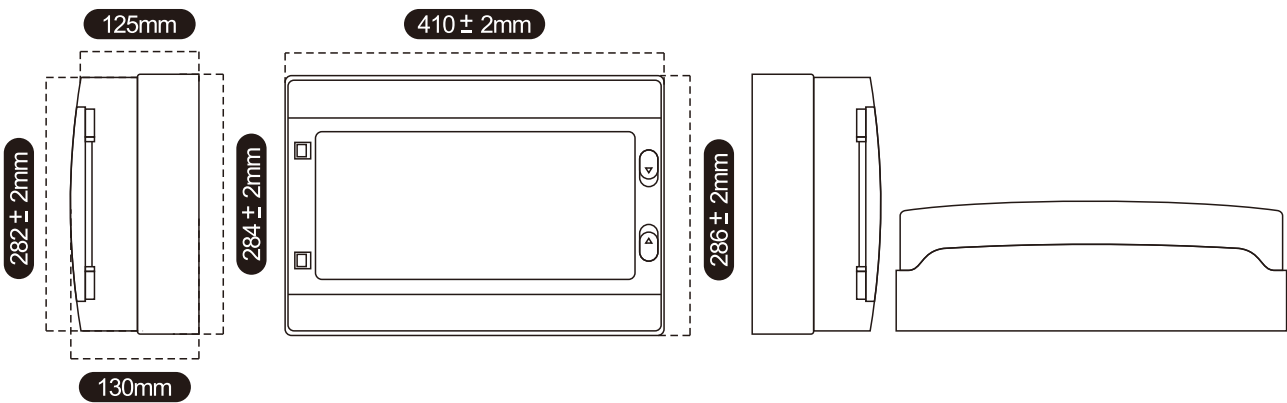
PC housing, IK10 impact resistance, flame retardant, corrosion resistant
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OEM/ODM Free Customization for PV Products



MCB: Miniature Circuit Breaker
FU: Fuse+Fuse holder
SPD: Surge Protection Device
OUPA: Overvoltage, Undervoltage, and Overcurrent Protector

Product Dimension Drawing (mm)



Technical data	
Model	LQX-2/2DC500VB1(600VL7)-1/1AC230/400V-PP
String	DC 2in 2out, AC 1in 1out
Rated Voltage Ue (V)	DC500/600V, AC230V/400V
Maximum input current per string (A)	DC15/20/25/30, AC16~125
Maximum output current per string (A)	DC16~125, AC16~1253
Quality Certificate	CE,ISO9001,RoHS,IP65
Protection Level	IP65
Impact Level	IK10
Box Material	PC+ABS
Operating Temperature	-25°C ~ +60°C
Humidity	≤95%
Connector	MC4 or PG
Installation	Installing Wall Hooks
Altitude	2000m
Dimension (without mounting connector)	285*410*130mm

DC MCB		DC SPD		DC FUSE	
Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC500/600	Rated Voltage Ue (V)	DC1000
Ui (V)	DC1000/1200	In (8/20)us (kA)	20	Rated Current In(A)	15/20/25/30
Rated Current In(A)	16~63	Imax (8/20)us (kA)	40	Fuse Size (mm)	10*38
Icu (kA)	6	Protection Level (kV)	2.2	Standard	IEC60269
standard	IEC 60947-2	standard	IEC 61643-31		
AC MCB		AC SPD		AC OUPA	
Rated Voltage Ue (V)	AC230/400	Rated Voltage Ue (V)	AC275V	>U setting range(V)	AC130~300
Rated Current In(A)	16~125	In (8/20)us (kA)	20	<U setting range(V)	AC80~210
Rated Frequency (Hz)	50/60	Imax (8/20)us (kA)	40	Rated Current In(A)	1~40/63/80
Icu (kA)	6	Protection Level (kV)	2.0	Rated Frequency (Hz)	50/60
standard	IEC 60898-1	standard	IEC 61643-11	standard	IEC 60255-127