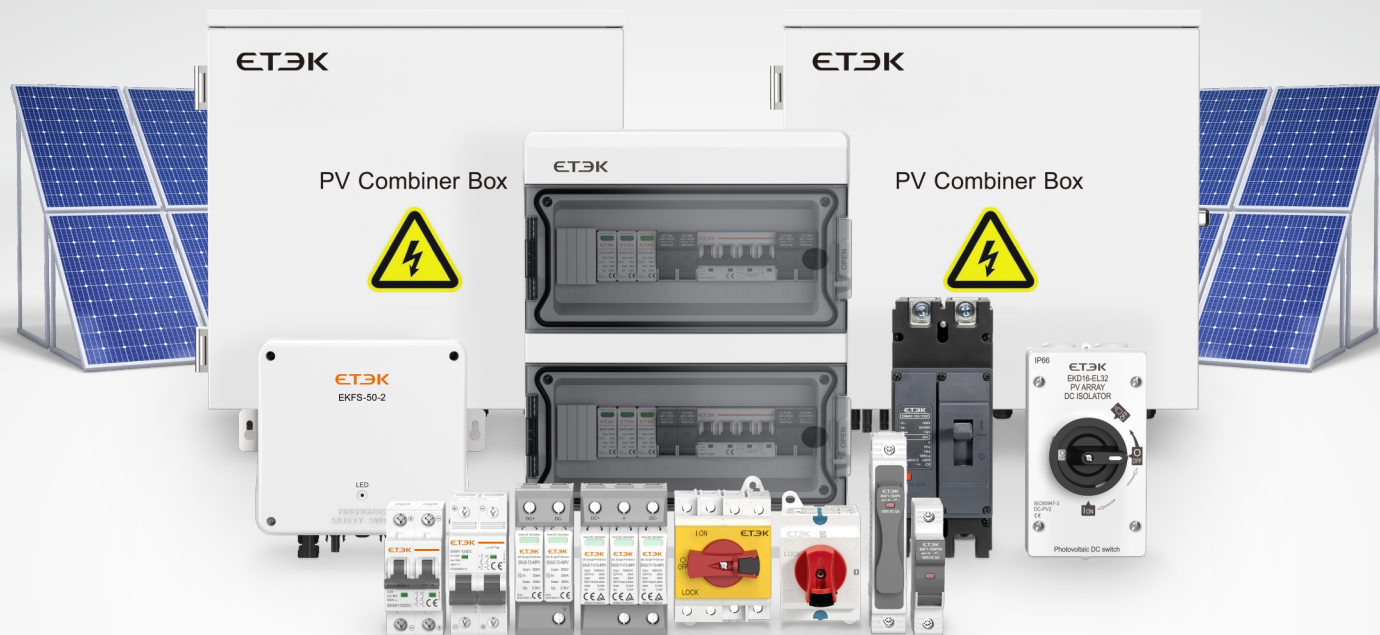


PV Systems

Circuit Protection Solutions

Product Selection Guide



DC MCB



Model	EKM1-63DC			EKM1-125DC		
Standard	IEC60947-2					
Poles	1P	2P	4P	1P	2P	4P
Rated voltage	250VDC	500VDC	1000VDC	250VDC	500VDC	1000VDC
Rated current	6~63A			80~125A		
Breaking capacity	6kA			10kA		
Rated impulse withstand voltage (Uimp)	4kV			4kV		
Contact position indicator	Red ON, Green OFF			Red ON, Green OFF		
Incoming method	According the wiring diagram			According the wiring diagram		

DC MCCB



Model	EKM6DC	EKM7DC
Frame size	250, 315, 400, 630, 800	320, 400, 630, 1600
Poles	2P, 3P	2P, 3P, 4P
Rated operational voltage	250/500/750/1000/1500VDC	750/1000/1200/1500VDC
Rated current	63~800A	100~1600A
Rated insulation voltage	1500V	1600V
Rated impulse withstand voltage	12kV	12kV
Breaking capacity (Ics=Icu) @ DC750V	15~50kA	50~85kA
Standard	IEC60947-2	IEC60947-2
Utilization category	Cat. A	Cat. A

AC SPD



Model	EKU5-T1+T2-7	EKU5-T1+T2-12	EKU5-T2-20	EKU5-T2-40
Standard	IEC/EN61643-11			
Poles	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE			
IEC/EN Category	Type 1+2	Type 1+2	Type 2	Type 2
Max. continuous operating voltage (L-N)	150, 275, 320, 385, 440V			
Max. continuous operating voltage (N-PE)	255V	255V	255V	255V
Lightning impulse current (10/350μs)(Iimp)	7kA	12.5kA	-	-
Norminal discharge current (8/20μs)(In)	25kA	30kA	10kA	20kA
Maximum discharge current (8/20μs)(Imax)	50kA	60kA	20kA	40kA
Voltage protection level (Up)	1.2~2.0kV	1.2~1.8kV	0.8~1.6kV	0.8~2.0kV
Voltage protection level 5kA (Up)	1.0~1.6kV	0.6~1.3kV	0.5~1.4kV	0.6~1.6kV
Voltage protection level (N-PE)(Up)	1.5kV	1.5kV	1.5kV	1.5kV

DC SPD



Model	EKU5-T2-20PV	EKU5-T2-40PV	EKU5-T1+T2-40PV
Standard	IEC/EN61643-31		
Poles	2P, 3P	2P, 3P	3P
IEC/EN Category	Type 2	Type 2	Type 1+2
Max. continuous operating voltage	600, 800, 1000, 1500VDC	600, 800, 1000, 1500VDC	1000, 1500VDC
Impulse discharge current (10/350μs)	-	-	6.25kA
Total discharge current (10/350μs)	-	-	12.5kA
Norminal discharge current (8/20μs)	10kA	20kA	20kA
Maximum discharge current (8/20μs)	20kA	40kA	40kA
Voltage protection level	2.6~5.2kV	2.6~5.2kV	4.0~5.2kV

DC Fuse



Model	EK1-10(X)PV	EK1-10(X)PVH	EK1-15(X)PV
Standard	IEC60269-6, IEC60947-3		
Number of poles	1P	1P	1P (22mm width)
Size of fuse link	10×38mm	10×38mm	10×85mm, 14×85mm
Versions	Without indicator, LED indicator		
Rated operational voltage (Ue)	1000VDC	1000VDC	1500VDC
Rated operational current (Ie)	32A	32A	35A
Rated insulation voltage (Ui)	1000V	1000V	1500V
Rated impulse withstand voltage (Uimp)	6kV	6kV	8kV
Utilization category	DC-PV0		
Degree of protection	IP20		
Operating temperature	-5°C to 40°C		
Storage temperature	-25°C to 55°C		



Model	EKFL10D10	EKFL15D10L	EKFL15D14L
Standard	IEC60269-6		
Size	10×38mm	10×85mm	14×85mm
Rated voltage	1000VDC	1500VDC	1500VDC
Rated current	8-32A	8-35A	25-50A
Rated breaking capacity	30kA	50kA	30kA
Utilization category	gPV		
Operating temperature	-40°C to 80°C		
Storage temperature	-40°C to 90°C		

DC Isolation Switch



Model	EKD16-DB32	EKD16-EL32	EKDS7
Standard	IEC60947-3		
Poles	A2, A4, 4S, 4B, 4T	A2, A4, 4S, 4B, 4T	2P, 3P, 4P, 6P, 8P, 10P, 2H, 3H, 4H, 4T, 4B, 4S, 3T, 6T, 9T
Rated insulation voltage	1500V	1500V	1500V
Rated current	32A	32A	13~50A
Rated thermal current	32A	32A	32~63A
Rated impulse withstand voltage (Uimp)	8kV	8kV	8kV
Rated short-circuit making capacity	1000A	1000A	1200A
Pollution degree	2	2	3
Overvoltage category	III	III	II

Rapid Shutdown Device



Model	EKFS-50-1	EKFS-50-2
No. of strings	1	2
Max String voltage	300-1500VDC	
Max String current	55A(800VDC), 50A(1000VDC), 40A(1250VDC), 30A(1500VDC)	
Switch wiring	2/4B	4
DC connector	MC4	
Power supply type	AC single phase	
Operating voltage	100-270VAC	
Nominal current	30mA	
Protection degree	IP65	
Max temperature for automa	70°C	

■ Solar PV String Monitoring Device



Model	EKPC-D
Input channels	8, 12, 16, 20, 24
DC operating voltage	DC50V~DC1500V
PV string current input	0~20A
Temperature measuring range	-40°C ~ +80°C
Communicate interface	RS485/ ModBus-RTU protocol
Baud rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps
Operating temperature	-30°C ~ +70°C
Storage temperature	-40°C ~ +80°C

■ Auxiliary Power Supply



Model	PWR-DC1500
Rated operating voltage	210VDC~1800VDC
Power	5W
Output voltage and current	5V/1A
Maximum working efficiency	85%
Power-off time	20ms(TYP)/ at Vin: 1000VDC
Start-up delay time	500ms(TYP)/ at Vin: 1000VDC
Dynamic response	25% nominal load jump $\pm 4\%$ /500us
Leakage current	0.03mA RMS TYP. 1200VDC

Waterproof Distribution Box



Model	EKDB10
Standard	IEC60529, IEC62262:2021, IEC60695-2-10:2013
Ways	4, 6, 9, 13, 18, 26, 39
Layers	Single layer for 4, 6, 9, 13, 18 ways
	Double layers for 26 ways
	Triple layers for 39 ways
Current capacity	125A (Maximum)
Installation	Surface-mounted
Protection degree	IP65
IK rating	IK08
Material	Polycarbonate
Colour	Base and frame: Grey, RAL 7035 (Black available)
	Windows: Transparent
Fire resistance	960°C/ 30s
Ambient temperature	-25°C to +55°C
Storage temperature	-40°C to +75°C

Model	Ways	Layers	Terminal	Neutral Bar Holes	Ground Bar Holes	Dimensions (mm)
EKDB10-4(T)	4	Single	Y/N	6	6	128×200×103.5
EKDB10-6(T)	6	Single	Y/N	6	6	164×200×103.5
EKDB10-9(T)	9	Single	Y/N	6	6	218×200×103.5
EKDB10-13(T)	13	Single	Y/N	10	10	296×230×121.5
EKDB10-18(T)	18	Single	Y/N	10	10	380×230×121.5
EKDB10-26(T)	26	Double	Y/N	2×10	2×10	296.5×390.5×131.5
EKDB10-39(T)	39	Triple	Y/N	2×10	2×10	296.6×550.6×131.5

Solar DC Combiner Box



1 in 1 out DC 600V Combiner Box

Model	EKDBS-PV1/1-IFS-600	Quantity
Enclosure of box	9 Ways, IP65, PC material	1
DC SPD	600VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	2
Main switch	1000VDC, 32A isolator switch	1



2 in 1 out DC 600V Combiner Box

Model	EKDBS-PV2/1-IFS-600	Quantity
Enclosure of box	13 Ways, IP65, PC material	1
DC SPD	600VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	4
Main switch	1000VDC, 32A isolator switch	1



2 in 2 out DC 600V Combiner Box

Model	EKDBS-PV2/2-IFS-600	Quantity
Enclosure of box	18 Ways, IP65, PC material	1
DC SPD	600VDC, 2P, 40kA, Type 2	2
DC fuse	1000VDC, 10x38mm, 15A	4
Main switch	1000VDC, 32A isolator switch	2



3 in 1 out DC 600V Combiner Box

Model	EKDBS-PV3/1-BFS-600	Quantity
Enclosure of box	13 Ways, IP65, PC material	1
DC SPD	600VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	6
Main switch	600VDC, 63A 2P DC MCB	1



1 in 1 out DC 1000V Combiner Box

Model	EKDBS-PV1/1-IFS-1000	Quantity
Enclosure of box	9 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	2
Main switch	1000VDC, 32A isolator switch	1



2 in 1 out DC 1000V Combiner Box

Model	EKDBS-PV2/1-IFS-1000	Quantity
Enclosure of box	13 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	4
Main switch	1000VDC, 32A isolator switch	1

Solar DC Combiner Box



3 in 1 out DC 1000V Combiner Box

Model	EKDBS-PV3/1-BFS-1000	Quantity
Enclosure of box	13 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	6
Main switch	1000VDC, 63A 4P DC MCB	1



4 in 1 out DC 1000V Combiner Box

Model	EKDBS-PV4/1-BFS-1000	Quantity
Enclosure of box	18 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	8
Main switch	1000VDC, 63A 4P DC MCB	1



2 in 2 out DC 1000V Combiner Box

Model	EKDBS-PV2/2-IFS-1000	Quantity
Enclosure of box	18 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	2
DC fuse	1000VDC, 10x38mm, 15A	4
Main switch	1000VDC, 32A isolator switch	2



4 in 2 out DC 1000V Combiner Box

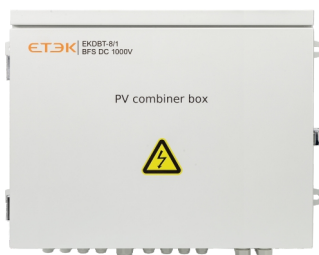
Model	EKDBS-PV4/2-IFS-1000	Quantity
Enclosure of box	26 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	2
DC fuse	1000VDC, 10x38mm, 15A	8
Main switch	1000VDC, 32A isolator switch	2



6 in 2 out DC 1000V Combiner Box

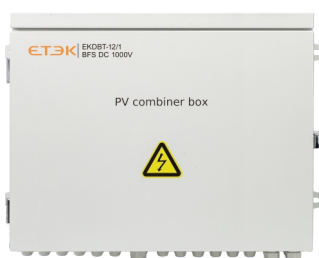
Model	EKDBS-PV6/2-BFS-1000	Quantity
Enclosure of box	26 Ways, IP65, PC material	1
DC SPD	1000VDC, 2P, 40kA, Type 2	2
DC fuse	1000VDC, 10x38mm, 15A	12
Main switch	1000VDC, 32A 4P DC MCB	2

Solar DC Combiner Box



8 in 1 out DC 1000V Combiner Box

Model	EKDBT-PV8/1-BFS-1000	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	16
Main switch	1000VDC, 250A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



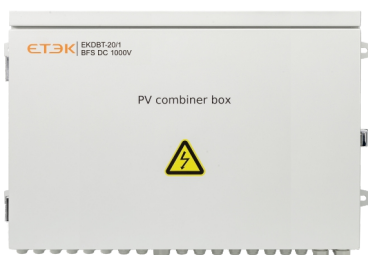
12 in 1 out DC 1000V Combiner Box

Model	EKDBT-PV12/1-BFS-1000	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	24
Main switch	1000VDC, 250A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



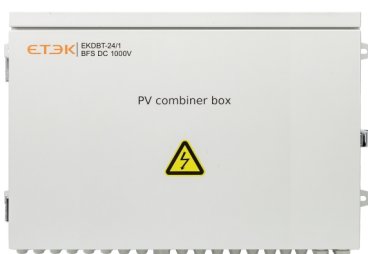
16 in 1 out DC 1000V Combiner Box

Model	EKDBT-PV16/1-BFS-1000	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	32
Main switch	1000VDC, 250A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



20 in 1 out DC 1000V Combiner Box

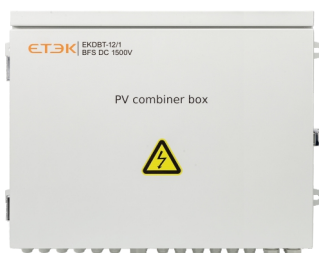
Model	EKDBT-PV20/1-BFS-1000	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	40
Main switch	1000VDC, 400A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



24 in 1 out DC 1000V Combiner Box

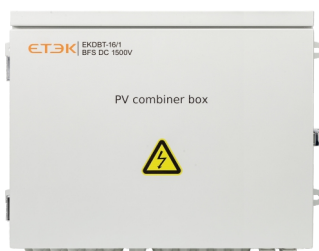
Model	EKDBT-PV24/1-BFS-1000	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1000VDC, 2P, 40kA, Type 2	1
DC fuse	1000VDC, 10x38mm, 15A	48
Main switch	1000VDC, 630A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	

Solar DC Combiner Box



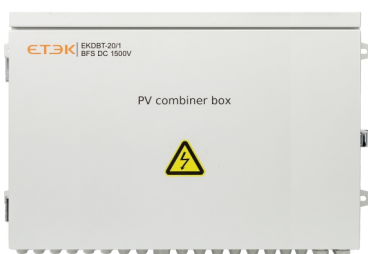
12 in 1 out DC 1500V Combiner Box

Model	EKDBT-PV12/1-BFS-1500	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1500VDC, 3P, 40kA, Type 2	1
DC fuse	1500VDC, 10x85mm, 15A	24
Main switch	1500VDC, 250A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



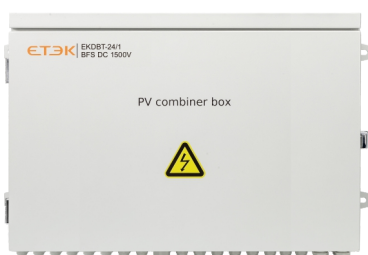
16 in 1 out DC 1500V Combiner Box

Model	EKDBT-PV16/1-BFS-1500	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1500VDC, 3P, 40kA, Type 2	1
DC fuse	1500VDC, 10x85mm, 15A	32
Main switch	1500VDC, 400A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



20 in 1 out DC 1500V Combiner Box

Model	EKDBT-PV20/1-BFS-1500	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1500VDC, 3P, 40kA, Type 2	1
DC fuse	1500VDC, 10x85mm, 15A	40
Main switch	1500VDC, 400A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



24 in 1 out DC 1500V Combiner Box

Model	EKDBT-PV24/1-BFS-1500	Quantity
Enclosure of box	IP65, Metal (Customizable shell materials)	1
DC SPD	1500VDC, 3P, 40kA, Type 2	1
DC fuse	1500VDC, 10x85mm, 15A	48
Main switch	1500VDC, 630A 2P DC MCCB	1
Anti reflection diode	Optional	
Monitoring module	Optional	



40k+ m²
Floor Area



500+
Employees



100+
Export Countries



30+
Brand Agents



15+ Years
Industry Experience



20 Mio+ Poles
Annual Production



≥50%
Automation Rate

Zhejiang ETEK Electrical Technology Co., Ltd. specializes in the R&D, production, and sales of low-voltage electrical appliances.

Core Offerings

MCB

RCCB

RCBO

AFDD

MCCB

ACB

EV Chargers

Photovoltaic DC Solutions

Quality Assurance

- IEC-compliant testing center
- Management System Certification: ISO 9001/14001/45001
- Product Conformity Certification



RoHS

Global Reach

- "ETEK" registered in 80+ countries
- Exports to 100+ countries (EU • South America • MENA • ASEAN • Africa)
- Supports OEM, ODM, OBM, SKD, and CKD partnerships

Corporate Culture

Values

Integrity • Innovation • Focus • Win-win

Vision

Dedicated to becoming a globally renowned manufacturer in the power distribution equipment industry.

Mission

Manufacturing safer and smarter distribution electrical products to support the development of green and digital energy



Wenzhou Factory



Wuhu Factory

ZHEJIANG ETEK ELECTRICAL TECHNOLOGY CO.,LTD.

No.288 Wei 17th Road, Economic Development Zone, Yueqing City, Zhejiang China.

Tel: 0086-577-62718777 0086-577-62780116

Email: info@etek-china.com

Web: www.etek-china.com www.eteksolar.com



Company Website



Product Details