



DC Isolation Switch

EDS7 Series DC Isolator

Leading Manufacturer Protects Solar Power Safety

Rev5.0 2025/03/06



DC ISOLATION SWITCH

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Product Benefits

- Non-polarity DC Isolator Switch
- Modular design, available 2-10 levels.
- Single Hole Mounting, Panel Mounting, Distribution Board, Door Clutch or Enclosure available.
- Dynamic sealing design and world class sealing materials guarantee an IP66 protection rate.
- DC 1600V insulation voltage design, passed IEC/EN60947-3, AS60947.3, UL508i, GB/T14048.3 test, TUV, CE, UL available.
- Impact resistance: IK08
- Rated current: 13A, 20A, 25A, 40A, 50A,

Select Code

	E	D	S	□	□	/	□	/	□	□
	1	2	3	4	5	6	7	8		
Code	Name		Description							
1	ONCCY brand		E							
2	DC		D							
3	Isolation Switch		S							
4	Series		7: Series 7							
5	Mounting Type		DB: Distribution Board PM: Panel Mounting DC: Door Clutch HM: Hole Mounting EL: Enclosed							
6	1000V Rated Current		13: 13A 20: 20A 25: 25A 40: 40A 50: 50A UL 13: 13A 20: 20A 25: 25A 30: 30A 40: 40A							
7	Pole		2:2P 3:3P 4:4P 6:6P 8:8P 10:10P 2H/3H/4H 4T/4B/4S UL 2:2P 3:3P 4:4P 6:6P 8:8P 10:10P							
8	Konb look		R:lockable Nil:With out lock							

Note* The direction of PM rotary buttons is 9 o'clock to close and 12 o'clock to open, and the rest of the rotary buttons are 12 o'clock to close and 3 o'clock to open. HM series rotary buttons have both the directions. If you have special needs, please kindly check with us.

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Technical data

According to IEC/EN60947-3, AS60947.3:2018, UL508i, GB/T14048.3, Utilization category DC-PV1/DC-PV2.

Model	A	13	20	25	40	50
Rated insulation voltage	Ui	V	1600	1600	1600	1600
Rated thermal current	Ith	A	32	40	55	63
Rated impulse withstand voltage	Uimp	V	8000			
Rated short-time withstand current (1s)	Icw	A	780			
Rated short-time making capacity	Icm	A	1200			
Maximum cable cross sections (incl. jumper)						
Solid or standard	mm²	4-16				
Flexible	mm²	4-16				
Flexible (+ multicore cable end)	mm²	4-16				
Torque						
Tightening torque terminal screws M4.	N·m	1.2-1.8				
Tightening torque single hole mounting nut M16	N·m	2.0-2.3				
Tightening torque knob screws M3	N·m	0.5-0.7				
Switching on or off torque	N·m	0.9-1.3				
General parameters						
Knob positions		9 o'clock,OFF 12 o'clock,ON / 12 o'clock,OFF 3 o'clock,ON				
Electrical Life	Actual	3000 Cycles				
	Standard	300 Cycles				
Mechanical Life	Actual	10000 Cycles				
	Standard	1000 Cycles				
Distance of contacts (per pole)		8mm				
Operation temperature		-40°C to +85°C				
Store temperature		-40°C to +85°C				
Pollution degree		3				
Overvoltage category		II				
IP rating of shafte and mounting nut		IP66				

Data according to IEC/EN60947-3, AS60947.3, UL508i, GB/T14048.3. Utilization category DC-PV1/DC-PV2.

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Layers	EDS7 Voltage / current (DC-PV1)								
	600Vdc	800Vdc	1000Vdc	1100Vdc	1200Vdc	1300Vdc	1500Vdc	1600Vdc	Model
2/3/4/6/8/10	32	26	13	13	10	10	5	5	EDS7XX/13/YZ
	40	30	20	20	12	12	6	6	EDS7XX/20/YZ
	55	45	25	25	15	15	8	6	EDS7XX/25/YZ
	/	50	40	40	30	30	20	12	EDS7XX/40/YZ
	/	63	50	50	40	35	32	16	EDS7XX/50/YZ
	/	/	32	/	26	/	13	/	EDS7XX/13/YZ
4T/B/S	/	/	40	/	30	/	20	/	EDS7XX/20/YZ
	/	/	55	/	40	/	30	/	EDS7XX/25/YZ
	/	/	/	/	/	/	45	/	EDS7XX/40/YZ
	/	/	/	/	/	/	50	/	EDS7XX/50/YZ
	/	/	32	/	23	/	10	/	EDS7XX/13/YZ
3T/6T/9T	/	/	40	/	30	/	13	/	EDS7XX/20/YZ
	/	/	55	/	40	/	20	/	EDS7XX/25/YZ
	/	/	/	/	45	/	30	/	EDS7XX/40/YZ
	/	/	/	/	50	/	40	/	EDS7XX/50/YZ
	/	/	32	/	23	/	10	/	EDS7XX/13/YZ
2H	50	26	13	/	10	/	5	/	EDS7XX/13/YZ
	64	30	20	/	12	/	6	/	EDS7XX/20/YZ
	80	45	25	/	15	/	8	/	EDS7XX/25/YZ
	90	50	40	/	30	/	20	/	EDS7XX/40/YZ
	100	55	50	/	40	/	30	/	EDS7XX/50/YZ
3H	/	50	13	/	10	/	5	/	EDS7XX/13/YZ
	/	64	20	/	12	/	6	/	EDS7XX/20/YZ
	/	80	25	/	15	/	8	/	EDS7XX/25/YZ
	/	90	40	/	30	/	20	/	EDS7XX/40/YZ
	/	100	50	/	40	/	30	/	EDS7XX/50/YZ
4H	/	/	50	/	10	/	5	/	EDS7XX/13/YZ
	/	/	64	/	12	/	6	/	EDS7XX/20/YZ
	/	/	80	/	15	/	8	/	EDS7XX/25/YZ
	/	/	90	/	30	/	20	/	EDS7XX/40/YZ
	/	/	100	/	40	/	30	/	EDS7XX/50/YZ

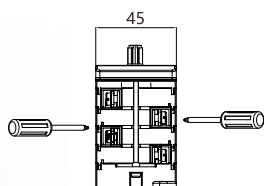
Layers	EDS7 Voltage / current (DC-PV2)					
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
2/3/4/6/8/10	13	13	6	4	3	EDS7XX/13/YZ
	20	15	8	6	4	EDS7XX/20/YZ
	25	23	10	8	5	EDS7XX/25/YZ
	40	30	20	15	8	EDS7XX/40/YZ
	50	40	25	18	10	EDS7XX/50/YZ
4T/B/S/3T/6T/9T	/	/	12	/	/	EDS7XX/13/YZ
	/	/	18	/	/	EDS7XX/20/YZ
	/	/	20	/	/	EDS7XX/25/YZ
	/	/	40	/	/	EDS7XX/40/YZ
	/	/	50	/	/	EDS7XX/50/YZ

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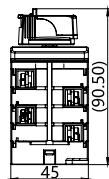
EDS7 Series DC Isolator

Drawing Size

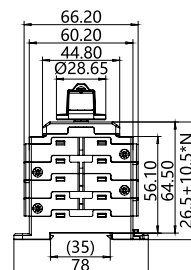
EDS7DBR



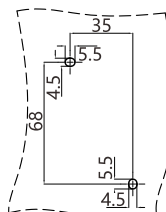
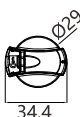
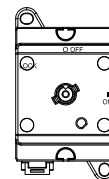
Wiring diagram



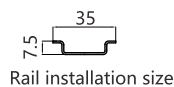
Head height



N is the number of layers



Bottom screw installation size

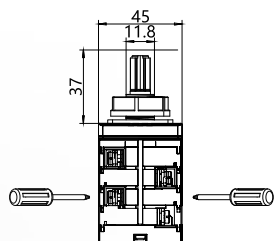


Rail installation size

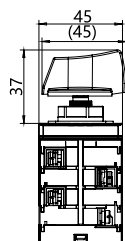


12 o'clock, OFF
3 o'clock, ON

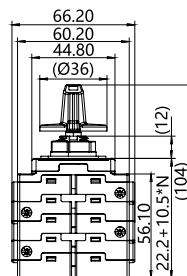
EDS7HM



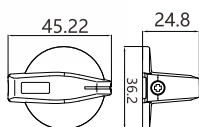
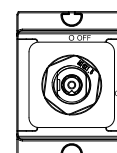
Wiring diagram



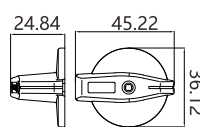
Head height



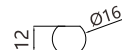
N is the number of layers



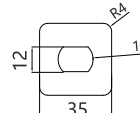
12 o'clock, OFF
3 o'clock, ON



9 o'clock, OFF
12 o'clock, ON



Hole Size

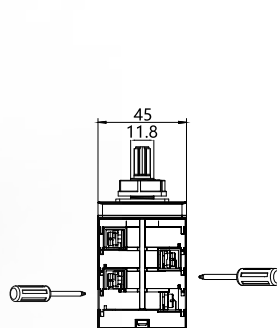


M16X1.5

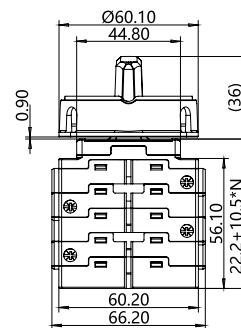
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Drawing Size

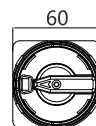
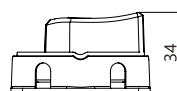
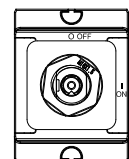
EDS7PMR



Wiring diagram



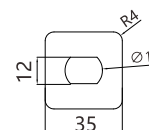
N is the number of layers



Hole Size

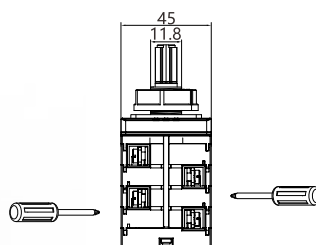


9 o'clock, OFF
12 o'clock, ON

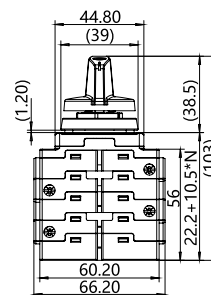


M16X1.5

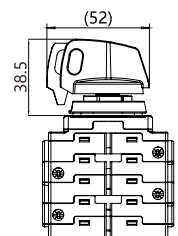
EDS7HMR



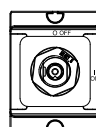
Wiring diagram



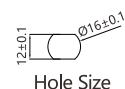
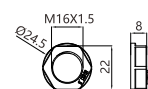
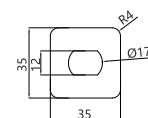
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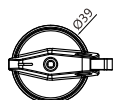
Head height



12 o'clock, OFF
3 o'clock, ON



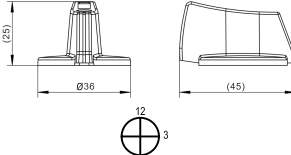
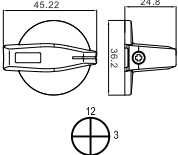
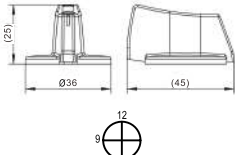
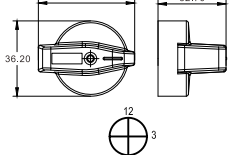
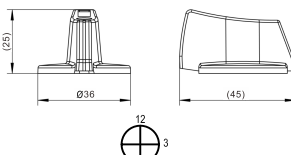
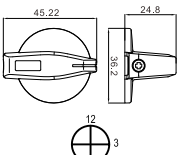
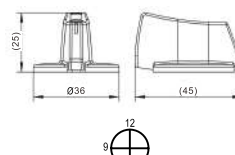
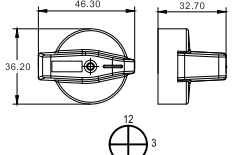
Hole Size



DC ISOLATION SWITCH

EDS7 Series DC Isolator

Knob

EDS-HM(3)	EDS-HM(3N)	EDS-HM(9)	EDS-HM(T3)
  12 o'clock, OFF 3 o'clock, ON	  12 o'clock, OFF 3 o'clock, ON	  9 o'clock, OFF 12 o'clock, ON	  12 o'clock, OFF 3 o'clock, ON
EDS-HMR(3)	EDS-HMR(9)	EDS-PMR(3)	EDS-PMR(9)
  12 o'clock, OFF 3 o'clock, ON	  12 o'clock, OFF 3 o'clock, ON	  9 o'clock, OFF 12 o'clock, ON	  12 o'clock, OFF 3 o'clock, ON

*Note

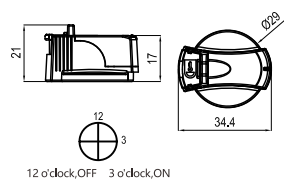
(3): 12 o'clock, OFF 3 o'clock, ON

(9): 9 o'clock, OFF 12 o'clock, ON

EDS7 Series DC Isolator

Knob

EDS-DBR(3)



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Wiring Diagram

