



DC Isolation Switch

EDS7/8 Series DC Isolator

Leading Manufacturer Protects Solar Power Safety

Rev1.0 2022/12/06



EDS7/8 Series DC Isolator



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 1500V insulation voltage design, passed IEC/EN60947-3, AS60947.3, UL508i, GB/T14048.3 test, TUV, CE, CB, SAA, UL, CCC available.
- Impact resistance: IK08
- Rated current: 13A, 20A, 25A, 40A, 50A,

Select Code

E
D
S
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1
2
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8

Code	Name	Description
1	brand	E
2	DC	D
3	Isolation Switch	S
4	Series	7: Series 7 (PV1) 8: Series 8 (PV1/PV2)
5	Mounting Type	DB: Rail Installation PM: Panel Mounting DC: Door interlock HM :Hole Mounting
6	1000V Rated Current	13: 13A 40: 40A 20: 20A 50: 50A 25: 25A
7	Pole	2:2P 10:10P 3:3P 2H/3H/4H 4:4P 4T/4B/4S 6:6P 8:8P
8	konb look	R:lockable Nil :With out lock

DC ISOLATION SWITCH

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Main Parameters

Rated Ccurrent	A	13	20	25	40	50	
Rated insulation voltage	U _i	V	1500	1500	1500	1500	1500
Rated thermal current	I _{th}	A	32	40	55	55	55
Rated impulse withstand voltage	U _{imp}	V	8000				
Rated short-time withstand current (1ms)	I _{cw}	A	780				
Rated short-time making capacity	I _{cw}	A	1200				
Maximum cable cross sections (incl. jumper)							
Solid or standard	mm ²	4-16					
Flexible	mm ²	4-16					
Flexible (+ multicore cable end)	mm ²	4-16					
Torque							
Tightening torque terminal screws M4.	Nm	1.2-1.8					
Tightening torque single hole mounting nut M16	Nm	2.0-2.3					
Tightening torque knob screws M3	Nm	0.5-0.7					
Switching on or off torque	Nm	0.9-1.3					
General parameters							
Knob positions	9 o'clock,ON 12 o'clock,OFF 3 o'clock,OFF 12 o'clock,ON						
Electrical Life	Actual	3000 Cycles					
	Standard	300 Cycles					
Mechanical Life	Actual	10000 Cycles					
	Standard	10000 Cycles					
Number of DC poles	2 or 4 (6/8 geek choice)						
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.

EDS7/8 Series DC Isolator

Layers	EDS7/8 Voltage / curren (DC-PV1)				
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc
2/3/4/6/8/10	32	26	13	10	5
	40	30	20	12	6
	55	45	25	15	8
	/	50	40	30	20
	/	55	50	40	30
	/	/	32	26	13
4T/B/S	/	/	40	30	20
	/	/	55	40	30
	/	/	/	/	45
	/	/	55	55	55
	/	/	32	23	10
	/	/	40	30	13
3T/6T/9T	/	/	55	40	20
	/	/	/	45	30
	/	/	55	55	55
	/	/	32	23	10
	/	/	40	30	13
	/	/	55	40	20

Layers	EDS8 Voltage / curren (DC-PV2)				
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc
2/3/4/6/8/10	32	26	13	10	5
	40	30	20	12	6
	40	40	25	15	8
	/	45	32	26	15
	/	50	40	32	18
	/	/	32	26	13
4T/B/S	/	/	40	30	20
	/	/	40	32	25
	/	/	/	/	30
	/	/	/	/	36
	/	/	32	23	10
	/	/	40	30	13
3T/6T/9T	/	/	40	32	20
	/	/	/	40	30
	/	/	/	45	36
	/	/	32	23	10
	/	/	40	30	13
	/	/	40	32	20

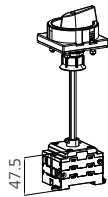
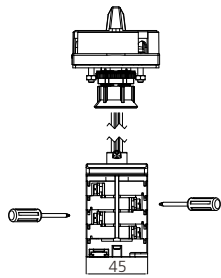
10P products needs to be customized, please kindly contact us if need them

DC ISOLATION SWITCH

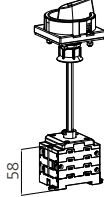
EDS7/8 Series DC Isolator

Drawing Size

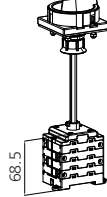
EDS7DC/...R EDS8DC/...R



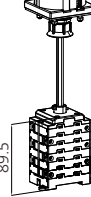
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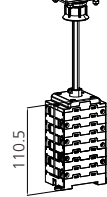
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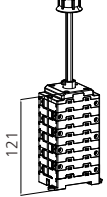
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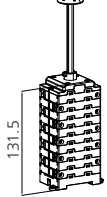
6/6T/3H



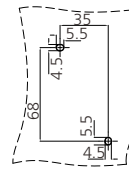
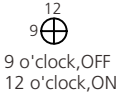
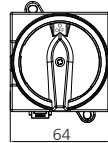
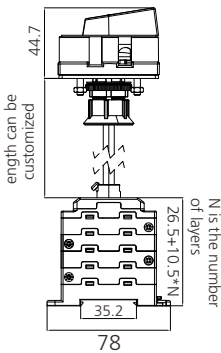
8/4H



9T



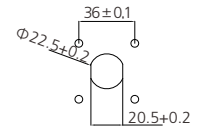
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Bottom screw installation size

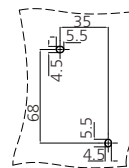
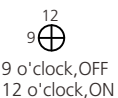
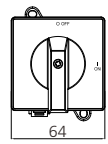
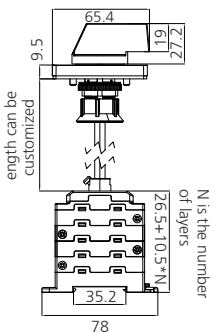
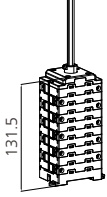
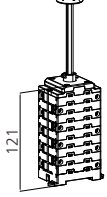
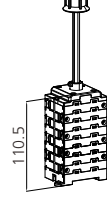
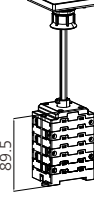
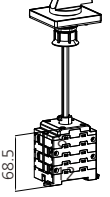
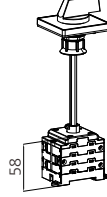
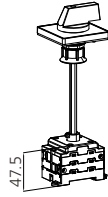
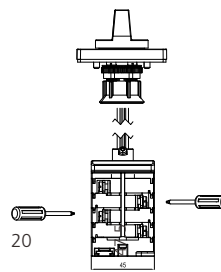


Rail size



Panel cut-out size

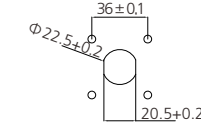
EDS7DC/... EDS8DC/...



Bottom screw installation size



Rail size

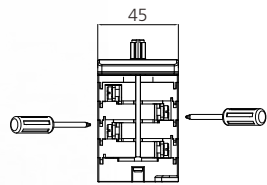


Panel cut-out size

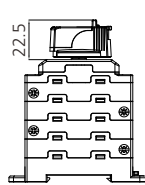
EDS7/8 Series DC Isolator

Drawing Size

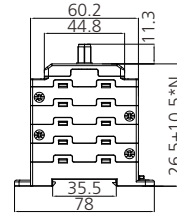
EDS7DBR EDS8DBR



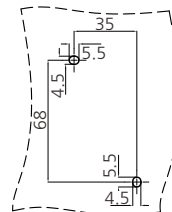
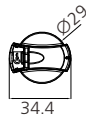
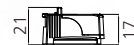
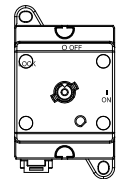
Wiring diagram



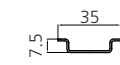
Head height



N is the number of layers



Bottom screw installation size

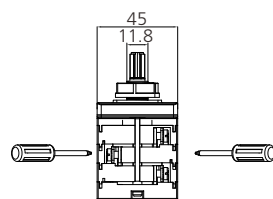


Rail installation size

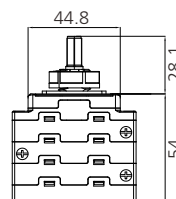


12 o'clock, OFF
3 o'clock, ON

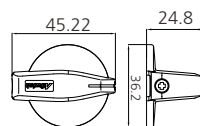
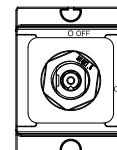
EDS7HM EDS8HM



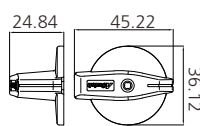
Wiring diagram



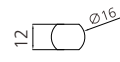
N is the number of layers



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



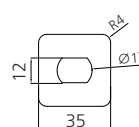
9 o'clock, OFF
12 o'clock, ON



Hole Size



M16X1.5

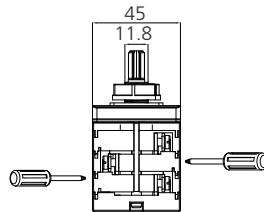


DC ISOLATION SWITCH

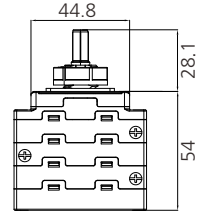
EDS7/8 Series DC Isolator

Drawing Size

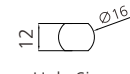
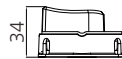
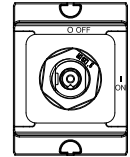
EDS7PMR EDS8PMR



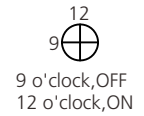
Wiring diagram



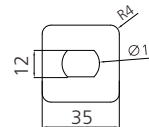
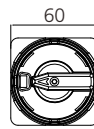
N is the number of layers



Hole Size

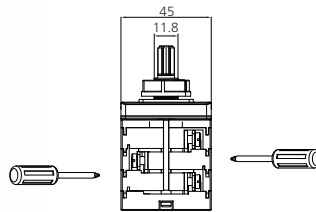


9 o'clock, OFF
12 o'clock, ON

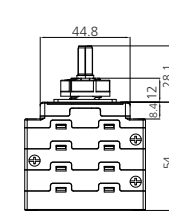


M16X1.5

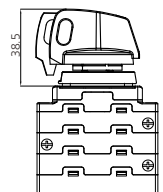
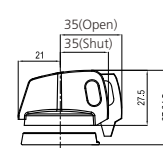
EDS7HMR EDS8HMR



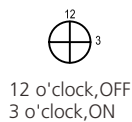
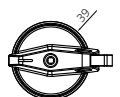
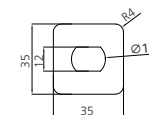
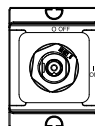
Wiring diagram



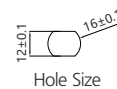
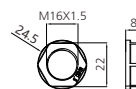
N is the number of layers



Head height



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



Hole Size