

HEXLON

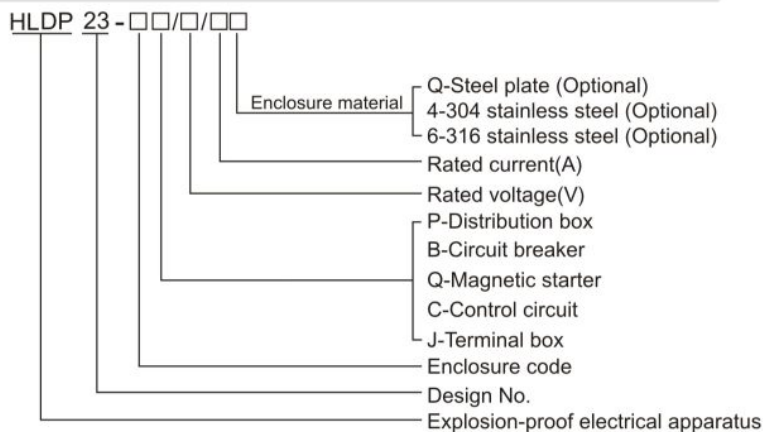
HLDP23- Series Explosion-proof Electrical Apparatus

1 Application and Features

- Explosion protection
 - IECEX (IEC)
 - ATEX (CENELEC, EN)
 - China Ex(GB)
- Application in hazardous area
 - Zone 1 and Zone 2,
 - Zone 21 and Zone 22
- Three types of explosion protection: Ex db IIB, Ex db IIB+H2, Ex tb IIIC.
- The enclosure can be equipped with miniature circuit breakers (MCB) or molded case circuit breakers (MCCB), leakage circuit breakers, contactors, thermal relays, PLCs, control transformers, soft starters, control buttons, indicator lights, push switches, potentiometers, Voltmeter, ammeter, tachometer, terminal block, etc.
- The enclosure with hinges and handle, convenient for installation and maintenance. Protect the flame-proof surface when operating.
- The circuit breaker using metal handle with frozen-resistant and can be equipped with a padlock.
- The enclosures can be combined and installed to meet the various requirements of power distribution systems.
- Can be customized according to user requirements, meet the certificate use restrictions;
- The number of elements and the maximum number of holes size needs to meet the requirements of power dissipation and mechanical strength of the housing.
- Please specify the special requirements when ordering.

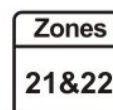
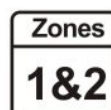


2 Nomenclature



Note:

1. Please select the model according to the "Nomenclature" above, and specify all the technical parameters;
2. Please provide the electrical schematic diagram;
3. Please specify the number, specification and position of the cable entry holes, and ex-proof cable glands provided by user;
4. The rain shade is customizable by requirements.



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3 Technical Parameter

Ex marking	Gas	Ex II 2 G Ex db IIB T6/T5/T4 Gb	Ex db IIB T6/T5/T4 Gb	Ex d IIB T6/T5/T4 Gb
		Ex li 2 G Ex db[ia/ib] IIB T6/T5/T4 Gb	Ex db[ia/ib] IIB T6/T5/T4 Gb	Ex d[ia/ib] IIB T6/T5/T4 Gb
		Ex li 2 G Ex db IIB+H2 T6/T5/T4 Gb	Ex db IIB+H2 T6/T5/T4 Gb	Ex d IIB+H2 T6/T5/T4 Gb
		Ex li 2 G Ex db[ia/ib] IIB+H2 T6/T5/T4 Gb	Ex db[ia/ib] IIB+H2 T6/T5/T4 Gb	Ex d[ia/ib] IIB+H2 T6/T5/T4 Gb
	Dust	Ex II 2 D Ex tb IIIC T80/T95/T130°C Db	Ex tb IIIC T80/T95/T130°C Db	Ex tD A21 IP66 T80/T95/T130°C
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-11, EN 60079-31 GB3836.1, GB3836.2, GB12476.1, GB12476.5		
Enclosure material	Enclosure	Steel plate welding, powder coated, Industrial grey with dark lines texture (RAL7035) Or stainless steel (304/316) welding, no painting or powder coated, Industrial grey with dark lines texture (RAL7035)		
	Transparent part	Tempered glass, resistant to 4J impact		
	Rain shade	Bended steel plate surface powder coated, industrial grey with dark lines texture (RAL7035) or stainless steel 304/316, please note when needed		
Exposed fasteners		Stainless steel		
Components	Power circuit breaker	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker		
	Branch switch	Miniature circuit breaker (MCB) or molded case circuit breaker (MCCB) and leakage circuit breaker		
	Terminal block	World famous brand		
	Indicator	HL0106 explosion-proof indicator, refer to P B/77; HL0107 explosion-proof indicator, refer to P B/78		
	Button	HL0105 explosion-proof switch button, refer to P B/71~76		
	Control switch	Control switch, refer to P B/82~89		
	AC contactor	World famous brand		
	Thermal relay	World famous brand		
	PLC programmer	World famous brand		
	Soft starter	World famous brand		
Rated voltage		Maximum 1000V AC, 1500V DC		
Rated current		Maximum 1500A		
Frequency		50Hz/60Hz		
Degree of protection		IP66		
Ambient temperature		-40℃~+40/60℃, -60℃~+40/60℃		
Cable entry		M□ X1.5(default, exact size according to requirement) , NPT thread (optional), HLBM-□ for recommended, see page D/11~D/20 for details		
Inlet direction		Bottom in and bottom out, upon request		
Installation method		Wall type (default)		
		Stand type (optional)		

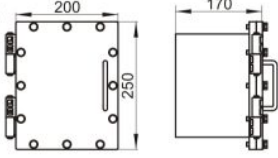
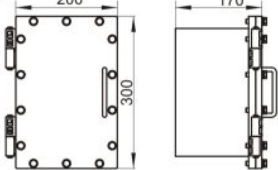
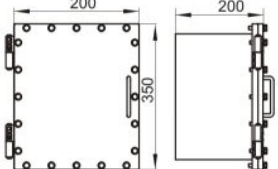
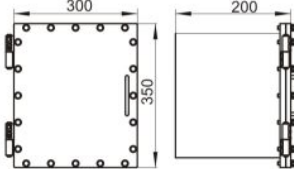
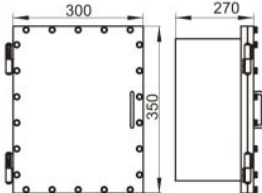
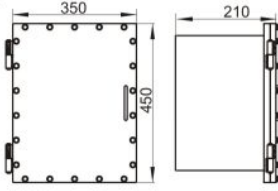
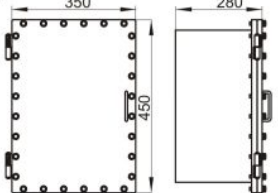
4 Selection Table

Type	Enclosure size (mm)	Internal size (mm)	Ta:+40℃			Ta:+60℃		The weight of Empty enclosure
	L×W×H	L×W×H	T6/T80℃	T5/T95℃	T4/T130℃	T6/T80℃	T5/T95℃	
HLDP23-03	250X200X170	186X136X140	80W	120W	200W	60W	100W	11 kg
HLDP23-07	300X200X170	236X136X140	80W	120W	200W	60W	100W	13 kg
HLDP23-11	350X200X200	286X136X170	100W	140W	240W	80W	120W	18 kg
HLDP23-15	350X300X200	286X236X170	125W	170W	290W	100W	130W	27 kg
HLDP23-19	350X300X270	286X236X240	130W	200W	350W	110W	170W	30 kg
HLDP23-23	450X350X210	386X286X163	140W	230W	420W	110W	200W	40 kg
HLDP23-27	450X350X280	386X286X236	160W	280W	500W	120W	250W	45 kg
HLDP23-31	560X400X210	476X316X151	190W	320W	520W	150W	290W	62 kg
HLDP23-35	560X400X280	476X316X221	200W	350W	620W	140W	320W	70 kg
HLDP23-39	635X435X265	554X350X206	220W	380W	660W	190W	350W	92 kg
HLDP23-43	635X435X335	554X350X276	220W	380W	660W	190W	350W	101 kg
HLDP23-47	720X560X275	636X476X212	250W	400W	700W	200W	360W	126 kg
HLDP23-51	720X560X345	636X476X272	250W	400W	700W	200W	360W	140 kg
HLDP23-56	980X720X325	896X636X235	350W	500W	800W	300W	430W	340 kg
HLDP23-59	980X720X425	896X636X340	350W	500W	800W	300W	430W	365 kg
HLDP23-63	1280X900X350	1176X796X260	500W	600W	1000W	400W	500W	620 kg
HLDP23-66	1280X900X500	1176X796X397	500W	600W	1000W	400W	500W	700 kg

Note: 1. Please confirm the direction and size of each cable entry; 2.No cable entry device as default.

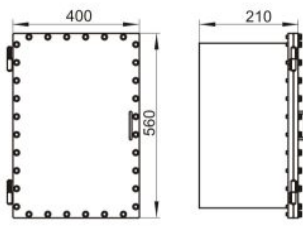
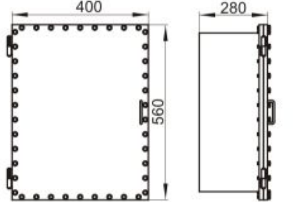
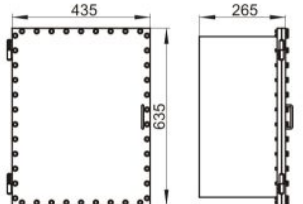
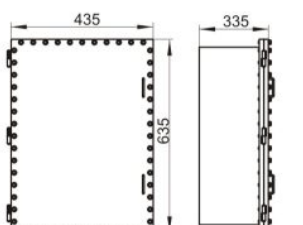
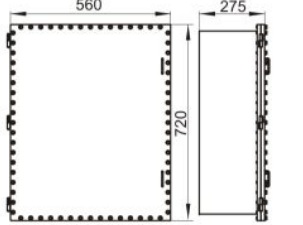
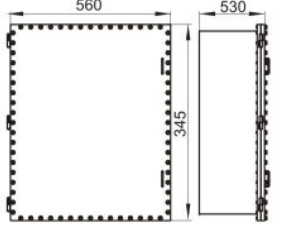
5 Terminal Box Outline Proposal (Dimensions in mm)

The maximum quantity of terminals that can be installed are shown in the table below:

Box specifications	Guideway×Terminal (specification and quantity)											
	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	50 ²	70 ²	120 ²	185 ²	240 ²	300 ²
	UK3N	UK5N	UK6N	UK10N	UK16N	UK35	UKH50	UKH95	UKH150	UKH240	UKH240	—
	SAKDU2.5N	SAKDU4N	SAKDU6	SAKDU10	SAKDU16	SAKDU35	SAKDU50	SAKDU70	WFF120	WFF185	WFF300	WFF300
03 	1 × 20	1 × 18	1 × 15	1 × 12	1 × 9	—	—	—	—	—	—	—
07 	1 × 28	1 × 25	1 × 21	1 × 18	1 × 15	1 × 5	—	—	—	—	—	—
11 	1 × 36	1 × 32	1 × 28	1 × 24	1 × 20	1 × 5	—	—	—	—	—	—
15 	1 × 72	1 × 64	1 × 56	1 × 24	1 × 20	1 × 10	1 × 7	1 × 5	—	—	—	—
19 	2 × 72	2 × 64	2 × 56	2 × 24	2 × 20	2 × 10	2 × 7	2 × 5	—	—	—	—
23 	1 × 100	1 × 90	1 × 80	1 × 60	1 × 25	1 × 15	1 × 13	1 × 10	1 × 5	—	—	—
27 	2 × 100	2 × 90	2 × 80	2 × 60	2 × 25	2 × 15	2 × 13	2 × 10	2 × 5	—	—	—

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	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	50 ²	70 ²	120 ²	185 ²	240 ²	300 ²
	UK3N	UK5N	UK6N	UK10N	UK16N	UK35	UKH50	UKH95	UKH150	UKH240	UKH240	—
	SAKDU25N	SAKDU4N	SAKDU6	SAKDU10	SAKDU16	SAKDU35	SAKDU50	SAKDU70	WFF120	WFF185	WFF300	WFF300
31		1 × 140	1 × 130	1 × 100	1 × 80	1 × 70	1 × 24	1 × 20	1 × 18	1 × 5	1 × 5	1 × 5
35		2 × 140	2 × 130	2 × 100	2 × 80	2 × 70	2 × 24	2 × 20	2 × 18	2 × 5	2 × 5	2 × 5
39		1 × 160	1 × 140	1 × 120	1 × 100	1 × 80	1 × 56	1 × 32	1 × 22	1 × 10	1 × 5	1 × 5
43		2 × 160	2 × 140	2 × 120	2 × 100	2 × 80	2 × 56	2 × 32	2 × 22	2 × 10	2 × 5	2 × 5
47		1 × 90	1 × 80	1 × 70	1 × 60	1 × 40	1 × 25	1 × 25	1 × 25	1 × 14	1 × 10	1 × 5
51		2 × 270	2 × 240	2 × 210	2 × 165	2 × 135	2 × 64	2 × 25	2 × 25	2 × 12	2 × 10	2 × 5

5 Terminal Box Outline Proposal (Dimensions in mm)

The maximum quantity of terminals that can be installed are shown in the table below:

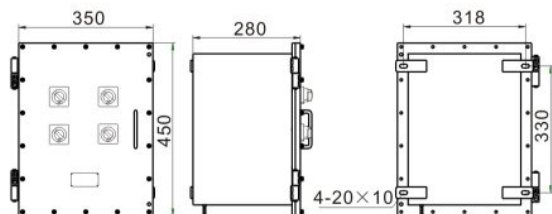
Box specifications	Guideway×Terminal (specification and quantity)											
	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	50 ²	70 ²	120 ²	185 ²	240 ²	300 ²
	UK3N	UK5N	UK6N	UK10N	UK16N	UK35	UKH50	UKH95	UKH150	UKH240	UKH240	—
	SAKDU2.5N	SAKDU4N	SAKDU6	SAKDU10	SAKDU16	SAKDU35	SAKDU50	SAKDU70	WFF120	WFF185	WFF300	WFF300
56												
	1 × 270	1 × 240	1 × 210	1 × 165	1 × 135	1 × 64	1 × 25	1 × 25	1 × 12	1 × 10	1 × 5	1 × 5
	2 × 264	2 × 248	2 × 200	2 × 160	2 × 136	2 × 90	2 × 72	2 × 72	2 × 42	—	—	—
59												
	3 × 396	3 × 372	3 × 300	3 × 240	3 × 204	3 × 135	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—
63												
	1 × 640	1 × 600	1 × 488	1 × 392	1 × 328	1 × 165	1 × 90	1 × 90	1 × 24	1 × 18	1 × 16	1 × 16
	2 × 360	2 × 340	2 × 272	2 × 220	2 × 184	2 × 124	2 × 100	2 × 100	2 × 56	2 × 40	—	—
66												
	3 × 540	3 × 510	3 × 408	3 × 330	3 × 276	3 × 186	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—

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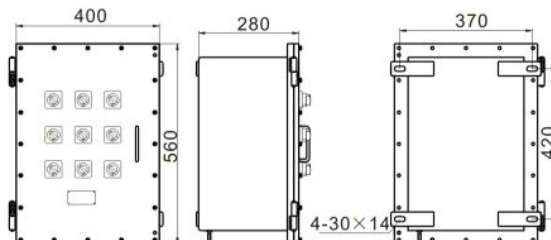
6 Control Station Outline Proposal (Dimensions in mm)

Enclosure code	Component layout						
03	a	b	c	d	e	f	g
07	a	b	c	d	e	f	g
15/19	a	b	c	d	e	r	g
23/27	a	b	c				
31/35	a	b	c				

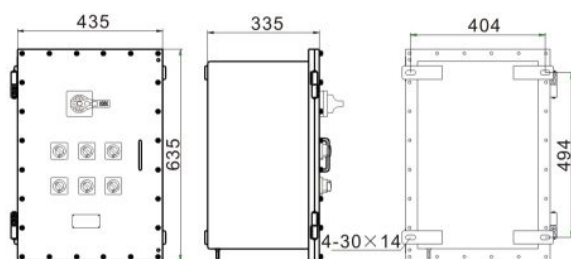
7 Distribution Box Outline Proposal (Dimensions in mm)



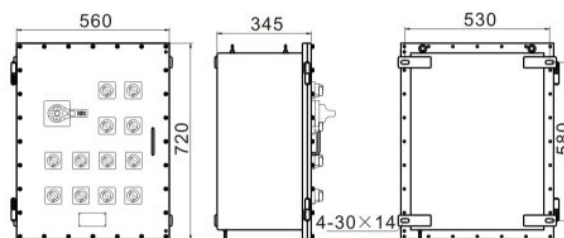
HLDP23-27P□/4/□



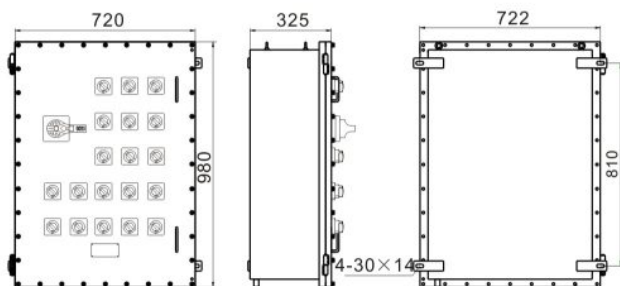
HLDP23-35P□/12/□



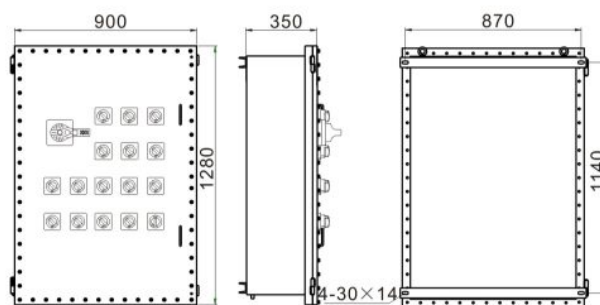
HLDP23-43P□/6/□K



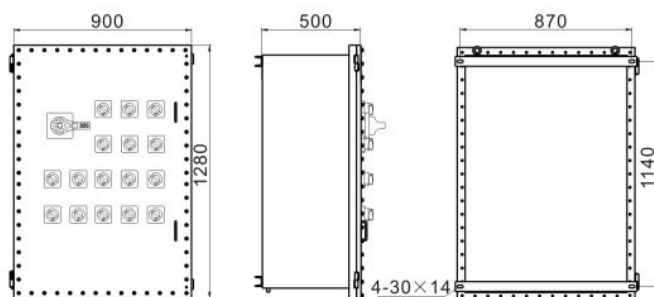
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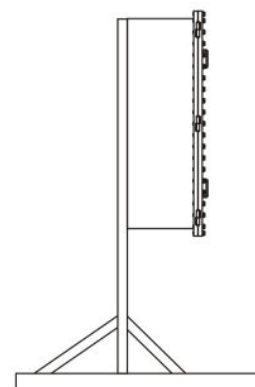
HLDP23-56P□/19/□K



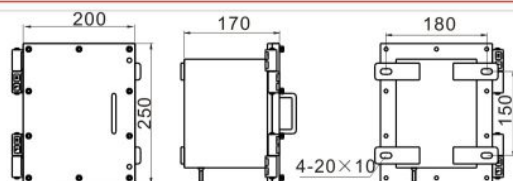
HLDP23-63P□/16/□K



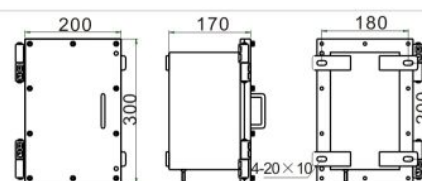
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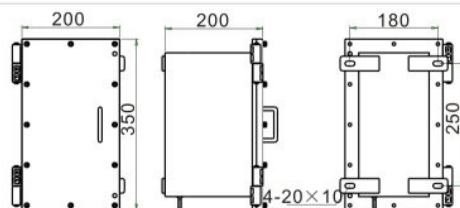
Floor type

8 Outline and Installation Dimension (Dimensions in mm)

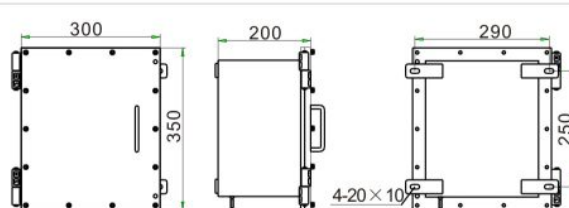
Enclosure 03



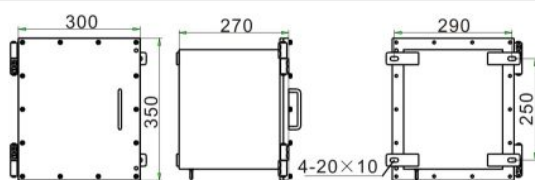
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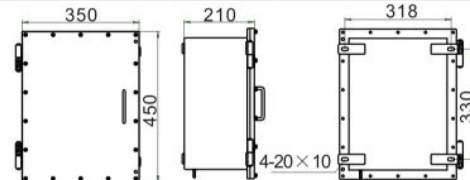
Enclosure 11



Enclosure 15



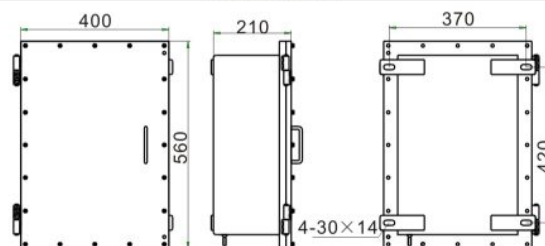
Enclosure 19



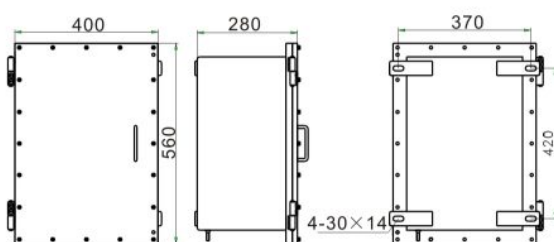
Enclosure 23



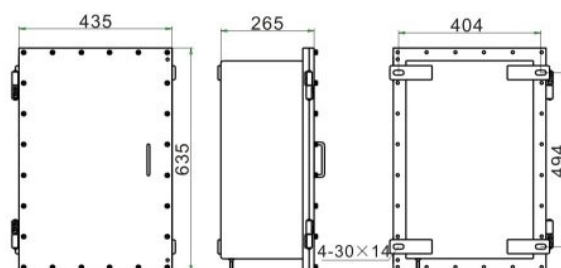
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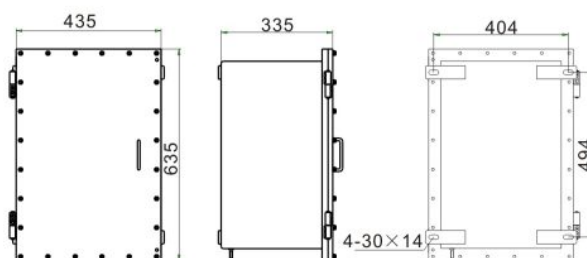
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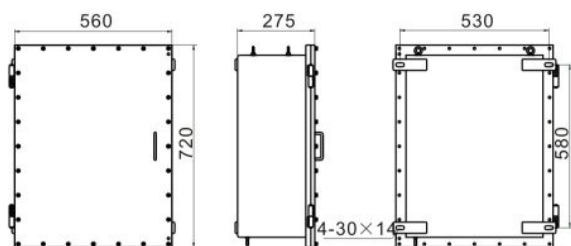
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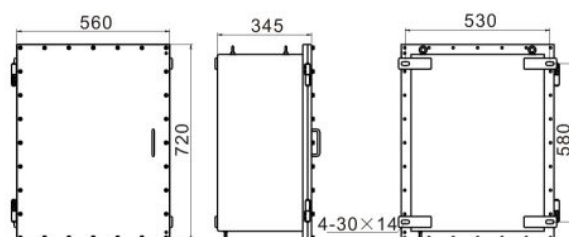
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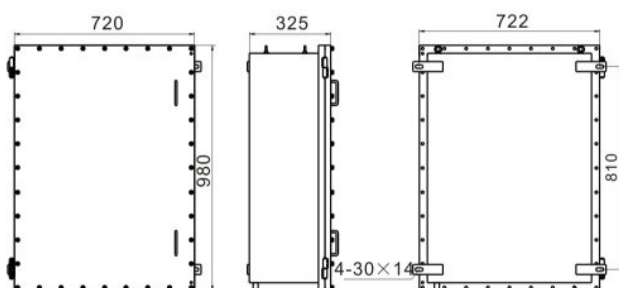
Enclosure 43



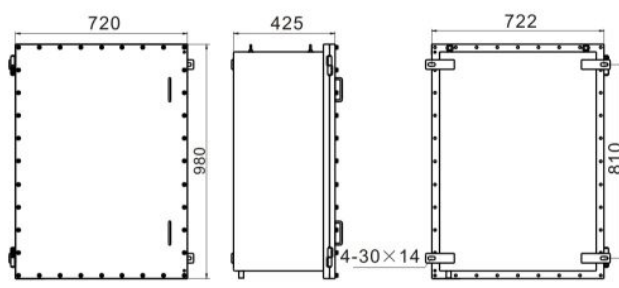
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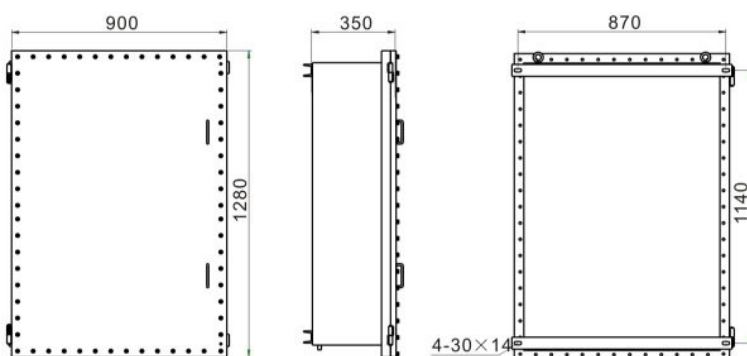
Enclosure 51



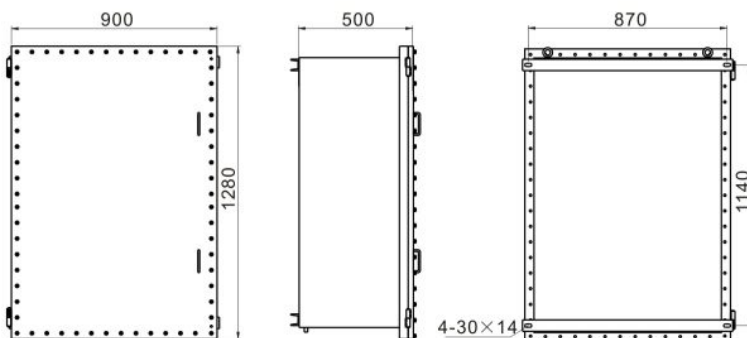
Enclosure 56



Enclosure 59



Enclosure 63



Enclosure 66