



DSE CATALOG
Version 2016-1

HI QUALITY HI BOX ENCLOSURES

A leader with the product of new material in plastic technology



『 New product SMART BOX
come into the world on 2015.』



www.dsehibox.com

RoHS (Restriction of the use of certain Hazardous Substances)

DSE HI-BOX products including all accessories fulfill the requirements of RoHS directive.

DSE, Inc.

DSE HI BOX Product Category

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HISTORY

1990.	12.	21	Established The Dong-Sin Co. (Company's own model was developed and began to domestic supplies)
1995.	1.	19	Changed the company's name as Dong-Sin Engineering (Began to export)
1997.	5.	23	In the field of domestic plastic Box Business, first obtained the Certificate of Capacity Test on stable Korea Gas Corporation (Ex eII T4)
1997.	7.	25	Obtained Germany's VDE Mark (Grade-IP 66)
1997.	9.	16	Obtained CE Mark of European Communities
1998.	4.	27	Obtained American UL Mark (UL 508A Type 4X)
1999.	9.	01	Obtained Germany's TUV Mark
2001.	7.	13	Moved to Saha-gu
2002.	1.	01	Changed the company's name as DSE, Inc.
2003.	6.	26	Chosen Export Prosperous small-medium sized company by Korean Government
2003.	11.	30	Achieved Export Award for one-million dollar export and an honor of President of Korea Certification Mark
2006.	11.	11	Obtained Environment Management System, ISO 14001:2004/ KSA 14001:2004 registered
2011.	5.	26	KOR-EU FTA
2011.	11.	30	Achieved Export Award for three-million dollar export and an honor of President of Korea Certification Mark
2012.	8.	1	Obtained Germany TUV Mark (IP67)
2014.	10.	27	Obtained Germany TUV Mark (IP68)
2001.	10.	19	Moved to Nam-gu



Hi Quality

HI BOX®

www.dsehibox.com

DSE, Inc.

#48553
227, Sinseon-ro, Nam-gu,
Busan, Repblic of Korea
Tel. 82-51-266-8798

CE, ISO 9001, ISO 14001, KSA 14001, KSA 9001

GREETING

We, DSE, Inc, have been continuously researching and making our efforts with our superior talented personnel for the purpose of producing the highest quality and its products preparing for technical innovation toward the 21st century.

Our intentional target is the Quality First Principle and we hereby promise to do our best with a new resolution and the faith for the purpose of growing as leading enterprises to the recognized by the people in the world.

We are hereby heartily appreciating for your patronizing our company's products up to the present and we will further appreciate for your continuous cooperation hereafter.

Thank you

DSE, Inc

※Today, DSE HI BOX is exporting enclosures to more than 30 countries and 100 companies.

DSE HI BOX Patent

- ▶Trademark Registration : No.40-330816, No.40-383187, No.40-383188, No.40-950297, No.40-956750, No.40-1027650, No.40-1046352, No.40-1046353
- ▶Patent : No.10-491755, No.10-1359303, No.10-1441060
- ▶Utility Model : No.20-443532, No.20-465429
- ▶Design : No.30-473986, No.30-327680, No.30-327679, No.30-667966, No.30-716830, No.30-716831, No.30-0766007, No.30-0766009, No.30-0766008

Mark Acquisition



- Passed IP-67, IK-08(mechanical stress) in accordance with EN 60529-1 : 1991 for IP-Code EN 50102 : 1995 for IK-Code through TUV Rheinland of Germany



- At the EC Executive Committee under the control of European Communities.

- Dust protected acc, to IEC 529 IP 6X passed
- Protected against temporary immersion acc, to IEC 529 IP X7 passed
- During the test no dust no water entered



- Has been assessed by ACE (JAS-ANZ) and complies with Quality Assurance Requirements of ISO 9001:2000 / ISO 14001:2000
- This is to certify that the Quality Management System of DSE INC.

RoHS(Restriction of Hazardous Substances)

RoHS Directive essentially states that electrical and electronic products put on the market within the EU shall not contain lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), or polybrominated diphenylethers (PBDEs) after July 1, 2006. DSE HI-BOX products including all accessories fulfill the requirement of RoHS requirement.

Treatment Item

- | | |
|--------------------------------|----------------------|
| ● SMART BOX | ● ECONOMY BOX |
| ● CONTROL BOX | ● NICE BOX |
| ● TERMINAL BOX | ● BIG BOX |
| – SCREW OPEN-CLOSE TYPE | ● CABLE GLAND |
| – DRAW LATCH OPEN-CLOSE TYPE | ● CONNECTOR |
| ● K-TERMINAL BOX | ● TERMINAL BLOCK BOX |
| ● SWITCH BOX | ● UNITE BOX |
| – SCREW OPEN-CLOSE TYPE | ● DIE-CAST BOX |
| – DRAW LATCH OPEN-CLOSE TYPE | ● PHENOL BOX |
| ● ALUMINIUM TERMINAL BLOCK BOX | ● ELECTRONIC BOX |



- Obtained the Inspection Standard UL Mark which is a Private organization relative to the Stability Regulation of American consumer products.
- Material Grade – Type 4X
- Passed Grade –Type 4X Environments

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DSE HIBOX UL CERTIFICATION

DSE Inc. Part No.	DSE Inc. Description
EN-000-1818	Economy Box
EN-000-2030	Economy Box
EN-000-3040	Economy Box
EN-000-1013	Economy Box
EN-000-1015	Economy Box
EN-000-1020	Economy Box
EN-000-1027	Economy Box
EN-000-4353-S	Economy Box
EN-000-4353	Economy Box
EN-000-5060-S	Economy Box
EN-000-5060	Economy Box
EN-000-5070	Economy Box
EN-000-5070-S	Economy Box
EN-000-1515	Economy Box
EN-000-1520	Economy Box
EN-000-2030-S	Economy Box
EN-000-2030-B	Economy Box
EN-000-2227	Economy Box
EN-000-2535	Economy Box
EN-000-2535-B	Economy Box
EN-000-3040-B	Economy Box
EN-000-3545-S	Economy Box
EN-000-3545	Economy Box
EN-000-4050	Economy Box
EN-000-4050-B	Economy Box
EN-000-6080	Economy Box

DSE Inc. Part No.	DSE Inc. Description
DS-000-012	Control Box
DS-000-012-W	Control Box
DS-000-015	Control Box
DS-000-015-W	Control Box
DS-000-01	Control Box
DS-000-01-W	Control Box
DS-000-02	Control Box
DS-000-02-W	Control Box
DS-000-03	Control Box
DS-000-03-W	Control Box
DS-000-04	Control Box
DS-000-07	Control Box(Big Box)
DS-000-013	Control Box
DS-000-013-W	Control Box
DS-000-025	Control Box
DS-000-025-W	Control Box
DS-000-036	Control Box
DS-000-036-W	Control Box

000 – PG, PT, PCG, PCT.

DSE Inc. Part No.	DSE Inc. Description
NE-000-1515	Nice Box
NE-000-1722	Nice Box
NE-000-1727	Nice Box
NE-000-1722-B	Nice Box
NE-000-1727-B	Nice Box
NE-000-1929-S	Nice Box
NE-000-1929	Nice Box
NE-000-1929-M	Nice Box
NE-000-2530	Nice Box
NE-000-2530-S	Nice Box
NE-000-2535	Nice Box
NE-000-2919-S	Nice Box
NE-000-2919	Nice Box
NE-000-2939-S	Nice Box
NE-000-2939-M	Nice Box
NE-000-2939	Nice Box
NE-000-2939-MS	Nice Box
NE-000-3030-S	Nice Box
NE-000-3030	Nice Box
NE-000-3546-S	Nice Box
NE-000-3546	Nice Box

DSE Inc. Part No.	DSE Inc. Description
EL-000-1313	Electronic Box
EL-000-1318	Electronic Box
EL-000-0813	Electronic Box
EL-000-1313-B	Electronic Box
EL-000-1318-B	Electronic Box
EL-000-0813-B	Electronic Box

DSE Inc. Part No.	DSE Inc. Description
DS-K000-1919	K Terminal Box
DS-K000-2819	K Terminal Box
DS-K000-2819-1	K Terminal Box
DS-K000-2828	K Terminal Box
DS-K000-2838	K Terminal Box
DS-K000-2838-1	K Terminal Box

DSE Inc. Part No.	DSE Inc. Description
SM-000-015	Smart Box
SM-000-01	Smart Box
SM-000-02	Smart Box
SM-000-03	Smart Box
SM-000-09	Smart Box

CAUTION :
Bonding is not automatic,
For Metal Conduit connections,
separate bonding is to be provided.
ATTENTION : LES CONDUITS DOIVENT ETRE RELIES PAR LA MASSE

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DSE HIBOX UL CERTIFICATION

DSE Inc. Part No.	DSE Inc. Description
DS-000-1919	Terminal Box
DS-000-2819	Terminal Box
DS-000-2819-1	Terminal Box
DS-000-2819-1M	Terminal Box
DS-000-2819-B	Terminal Box
DS-000-2819-B1	Terminal Box
DS-000-2828	Terminal Box
DS-000-2834	Terminal Box
DS-000-2838	Terminal Box
DS-000-2838-1	Terminal Box
DS-000-3819	Terminal Box
DS-000-3819-1	Terminal Box
DS-000-3819-B	Terminal Box
DS-000-3819-B1	Terminal Box
DS-000-3828-B	Terminal Box
DS-000-3828-B1	Terminal Box
DS-000-5628	Terminal Box
DS-000-5638	Terminal Box

DSE Inc. Part No.	DSE Inc. Description
DS-000H-1919	Terminal & Hinge Box
DS-000H-1928	Terminal & Hinge Box
DS-000H-2819	Terminal & Hinge Box
DS-000H-2819-B	Terminal & Hinge Box
DS-000H-2819-B1	Terminal & Hinge Box
DS-000H-2819-1M	Terminal & Hinge Box
DS-000H-1938	Terminal & Hinge Box
DS-000H-3819	Terminal & Hinge Box
DS-000H-1938-1	Terminal & Hinge Box
DS-000H-3819-1	Terminal & Hinge Box
DS-000H-3819-B	Terminal & Hinge Box
DS-000H-3819-B1	Terminal & Hinge Box
DS-000H-2828	Terminal & Hinge Box
DS-000H-2834	Terminal & Hinge Box
DS-000H-3428	Terminal & Hinge Box
DS-000H-2838	Terminal & Hinge Box
DS-000H-3828	Terminal & Hinge Box
DS-000H-2838-1	Terminal & Hinge Box
DS-000H-3828-1	Terminal & Hinge Box
DS-000H-3828-B	Terminal & Hinge Box
DS-000H-3828-B1	Terminal & Hinge Box
DS-000H-2856	Terminal & Hinge Box
DS-000H-3856	Terminal & Hinge Box

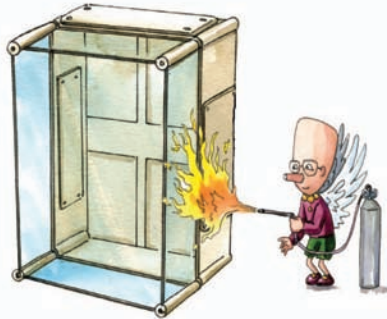
DSE Inc. Part No.	DSE Inc. Description
PL-000-0609	Unit Box
PL-000-0709	Unit Box
PL-000-0816	Unit Box

DSE Inc. Part No.	DSE Inc. Description
DS-000-0506	Switch Box
DS-000-0506-S	Switch Box
DS-000-0507	Switch Box
DS-000-0712	Switch Box
DS-000-0712-1	Switch Box
DS-000-0712-2	Switch Box
DS-000-0808	Switch Box
DS-000-0811-S	Switch Box
DS-000-0811-S1	Switch Box
DS-000-0811	Switch Box
DS-000-0813	Switch Box
DS-000-0816	Switch Box
DS-000-0816-S	Switch Box
DS-000-0818	Switch Box
DS-000-0820	Switch Box
DS-000-0825	Switch Box
DS-000-0811-1	Switch Box
DS-000-0813-1	Switch Box
DS-000-0818-1	Switch Box
DS-000-0825-1	Switch Box
DS-000-1010	Switch Box
DS-000-1010-S	Switch Box
DS-000-1123	Switch Box
DS-000-1212-S	Switch Box
DS-000-1212	Switch Box
DS-000-1217	Switch Box
DS-000-1217-1	Switch Box
DS-000-1417	Switch Box
DS-000-1423	Switch Box
DS-000-1515	Switch Box
DS-000-1520	Switch Box
DS-000-1520-S	Switch Box
DS-000-1520-1	Switch Box
DS-000-1520-S1	Switch Box
DS-000-1520-B	Switch Box
DS-000-1520-B1	Switch Box
DS-000-1525	Switch Box
DS-000-1525-1	Switch Box
DS-000-1525-B	Switch Box
DS-000-1525-B1	Switch Box
DS-000-1717	Switch Box
DS-000-1717-1	Switch Box
DS-000-1717-2	Switch Box
DS-000-1725	Switch Box
DS-000-1725-1	Switch Box
DS-000-2020	Switch Box
DS-000-2020-B	Switch Box
DS-000-2020-S	Switch Box
DS-000-0811A1	Switch Box
DS-000-0813-1A2	Switch Box
DS-000-0818-1A3	Switch Box
DS-000-0825-1A4	Switch Box
DS-000-0811-1B1	Switch Box
DS-000-0813-1B2	Switch Box
DS-000-0818-1B3	Switch Box
DS-000-0825-1B4	Switch Box
DS-000-0811D1	Switch Box
DS-000-0813D2	Switch Box
DS-000-0818D3	Switch Box
DS-000-0825D4	Switch Box
DS-000-0811-1C1	Switch Box
DS-000-0813-1C2	Switch Box
DS-000-0818-1C3	Switch Box
DS-000-0825-1C4	Switch Box

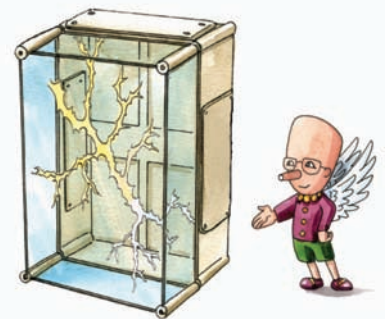
The Characteristics of DSE HI BOX



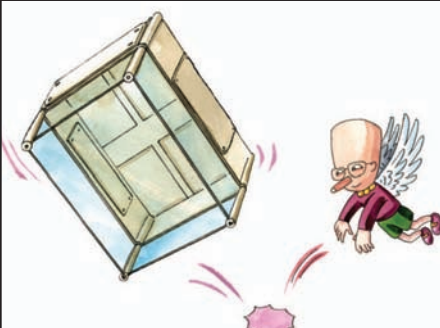
Water-Proof



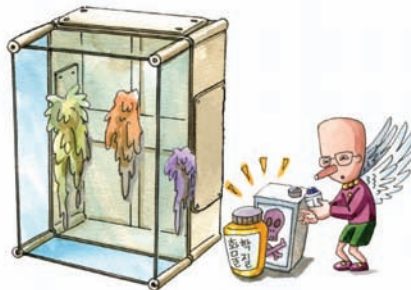
Non-Flammability



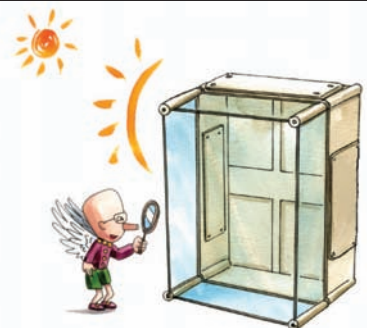
Property of Insulation



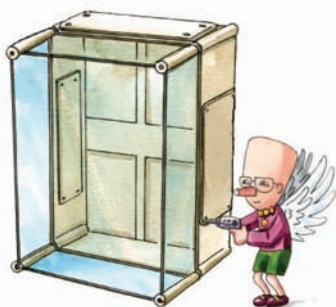
Impact Resistance



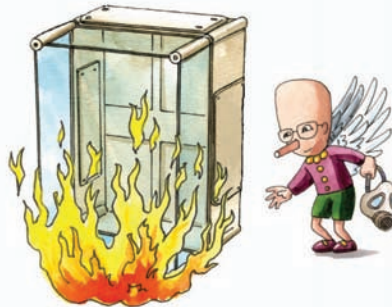
Corrosion Resistance



UV Protection



Workability



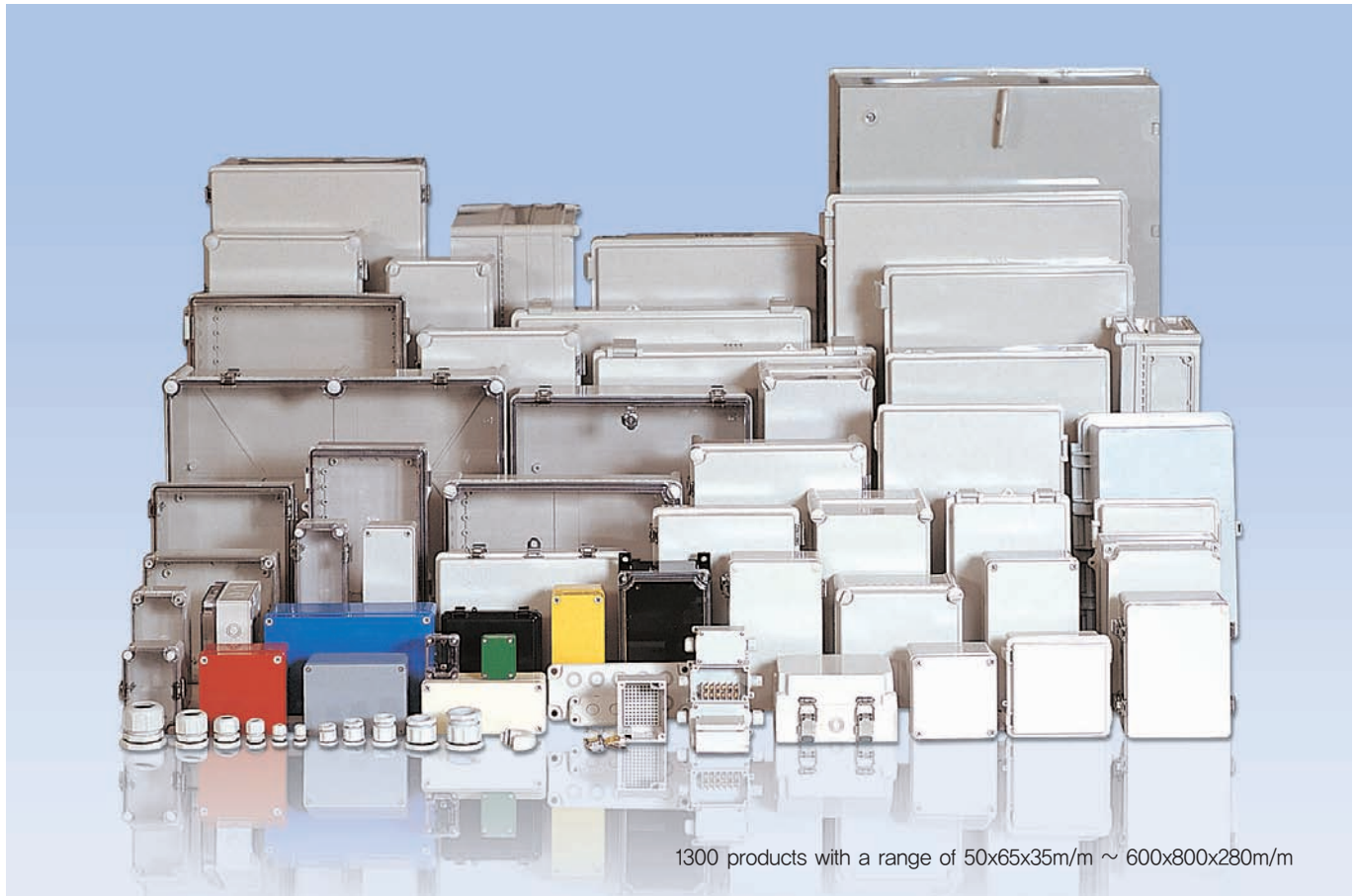
No Halogen



Lightness

HI BOX

®



Features of DSE HI BOX

- As the product is delivered from the manufacturing in a finished state, it is equipped with patented draw-latches, hinges and special locking devices, its use is convenient.
- The product's appearance is graceful, ABS(Acrylonitrile Butadiene Styrene), PC(polycarbonate) and polyester have been applied to ensure durability.
- The product weighs approximately 1/4 the weight of an iron box and can be easily installed or moved. The product is free from corrosion, carries superior insulation.
- The product has been perfected to the highest commercial standards through reinforcement of the box's thickness by more than 30% over existing plastic electric boxes.
- The quality system is on the strict quality control and the precise molding, the products obtained European community CE Mark, Germany TUV Mark, ISO approval.
- At the outset in our country, a recognition of Plastic Electric BOX'S safety explosionproof was authenticated and the product appends to the substances of electromagnetic interference(E.M.I) and static electricity prevention, and it attaches importance to the protection of relevant apparatuses such as internal parts and electricity-electron etc.
- As for the new product Economy Box series, its capacity and working efficiency are most excellent and also it has a high competitive power with the low price on the steel Box level.
- The grafted HI BOX and Multipurpose Frame are very simple to install also both of waterproof and dustproof were perfectly settled by a strict quality control.(IP 67)

Applications of DSE HI BOX

Control boards, distribution boards, terminal boxes and PCB boxes for electric, electronic, communications and fire-fighting facilities.

For electric and electronic facilities used in shipbuilding and the petrochemical industry, chemical

plants, coastal plants, stevedoring plant facilities, waste water treatment plants, environmental facilities, fire-fighting and housing facilities, cement plants, food plants, and agricultural and marine products and livestock processing plants.

DSE, Inc.

D

DSE HI BOX FAMILY DEVOTES THEMSELVES TO EVERY SINGLE PART OF PRODUCT.

DSE HI BOX devote themselves to an individual product with preparedness and the faith of which they never neglect even a small part from a ring through the lock ability. The super products and remarkable technical skill are not realized in a moment. A small should be taken no neglected and as for the HI BOX when was produced by DSE HI BOX Family. It's proud of them.



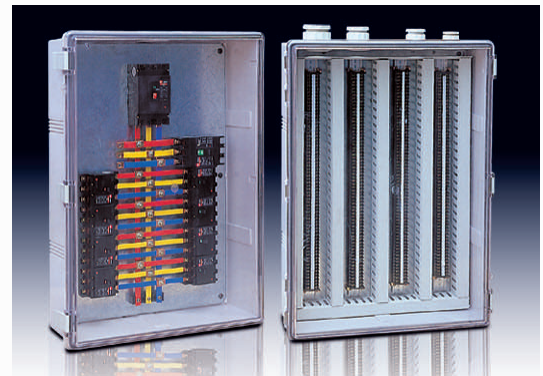
■ Waterproof Test



■ Energyline Box



■ Impact Test



■ Products equipped with Nice box



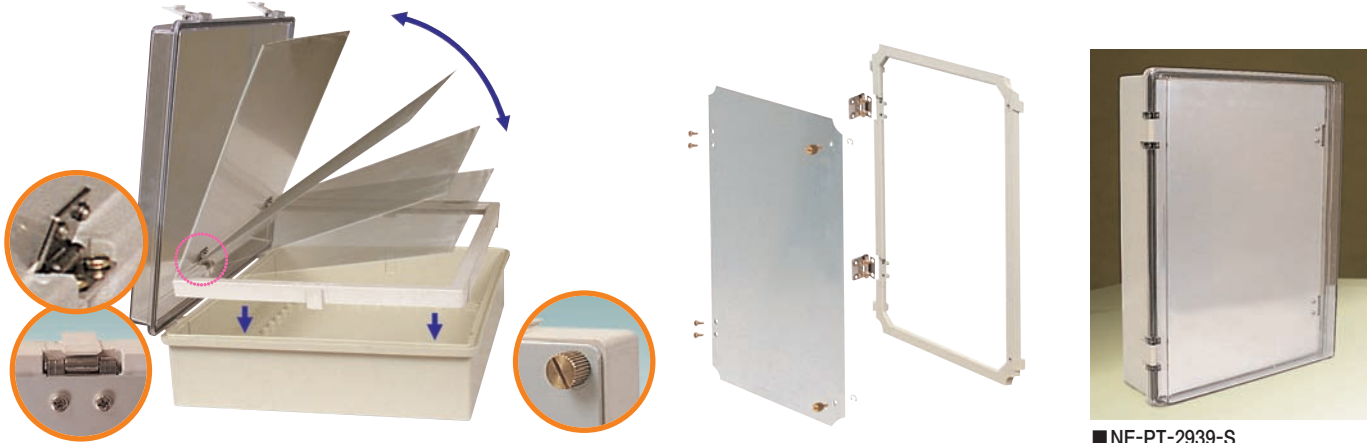
■ Products equipped with Switch box

Special functions & Products assembled

■SERVING FOR THE ALUMINUM PANEL FITTING ON AN UTILIZATION OF MULTIPURPOSE Frame.

(Multipurpose attachment to the Control, Terminal and Nice Box.)

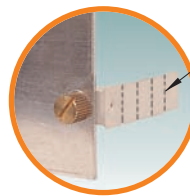
DSE HIBOX made the convenience high on the use at the time of attaching PCB mechanical plate and the ALUMINUM PANEL utilized with the Multipurpose Frame(DSF-012, 1929, 2838 etc) which is in the patent and the product main body solidly keeps the balance.



■ NE-PT-2939-S



■ DS-PTH-2838



The height can be controlled up to 5 steps with 10mm units.

■ SERVING FOR ALUMINUM PANEL FITTING WITH AN UTILIZATION OF CLIP AND CLIP HINGE. (Fitting the Clip and Clip Hinge of Control, Terminal, Nice Box, Switch Box, Economy Box)

DSE HI BOX makes high convenience on its use at the time of attaching PCB mechanical plate and ALUMINUM PANEL with an utilization of Clip and Clip Hinge to be used for its fitting of ALUMINUM PANEL which is requesting for the patent.

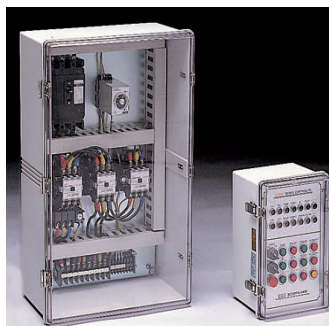


■ CLIP HINGE

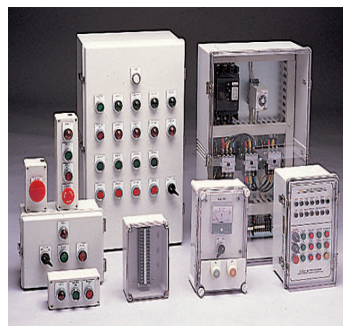
PCB mechanical plate, aluminum panel and other panels can be perfectly simply installed upon applied the inseting type Clip Hinge which is unnecessary for a special fitting.



■ Products equipped with Terminal box



■ Products equipped with Control box

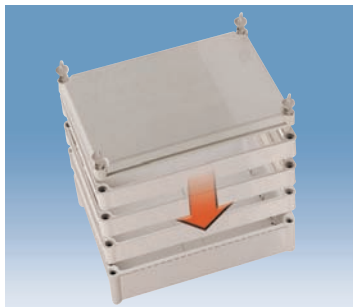


■ Products assembled with DSE HI BOX



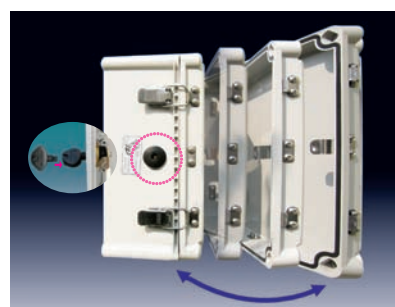
■ ECONOMY BOX (EN-PT-5070)

The Fitting of Extension frame & Special hinge, Draw latch



■ Extension Frame

- Each 3 Step of EF-AG-3828(380×280×50) should be established on Terminal DS-AG-3828 and perfect waterproof-dustproof can be realized.



■ DS-PK-20

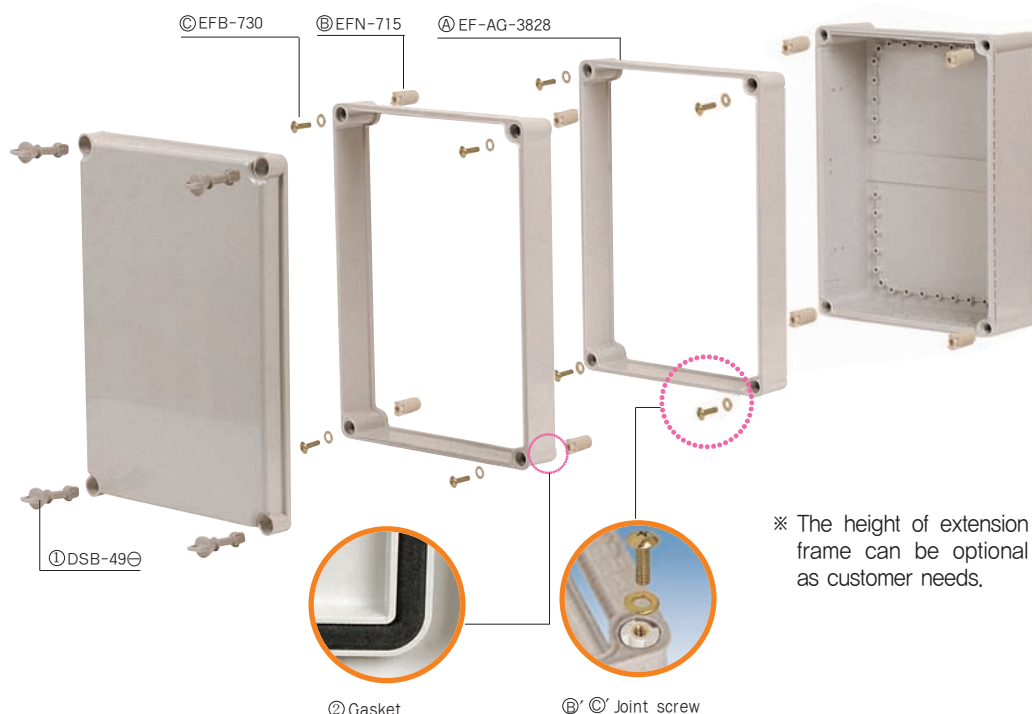
- The security can be completed as installing internal key (DS-PK-20)



■ DS-AG-3828

EF-AG-3828 (Depth 50×3)

- An identical specification to other accessories Terminal Box.
- A control of depth is possible regardless the basic size.
- ① ② - Basic specification
- ④ ~ ⑥ - Optional specification



As for the joint screw, nut and gasket sealing, its perfect waterproof and dust proof are guaranteed.

SPECIAL HINGE, DRAW LATCH (Carriage Bolt)

As for the Control Box and H Type Box, The Assembled is possible by the user's requirement.



■ Carriage Bolt

There is no unlocking function (⊕ Drive Seat) outside and the locking function is assisted at the time of installing the locking device, and its appearance is beautiful.

The fitting is made perfect as Hinge's square groove and square of carriage bolt is tightly bitten each other.

The rubber seal was immanent and accordingly the unlocking is impossible once it was assembled, and the waterproof function is excellent.

■ Waterproof type special rubber seal

It makes a particular shape and the adhesive efficiency and elasticity (ductility) are excellent when it is assembled.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
SM-000-015	200	300	150	7.87 × 11.81 × 5.91	
SM-000-01	200	300	180	7.87 × 11.81 × 7.09	
SM-000-02	300	400	180	11.81 × 15.75 × 7.09	
SM-000-03	400	500	200	15.75 × 19.63 × 7.87	
SM-000-09	700	1000	305	27.56 × 39.37 × 12.01	

■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

The enclosures are developing according to the requests of America and Europe.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
SM-000-04	400	600	230	15.75 × 23.62 × 9.06	
SM-000-08	800	900	300	31.50 × 35.43 × 11.81	

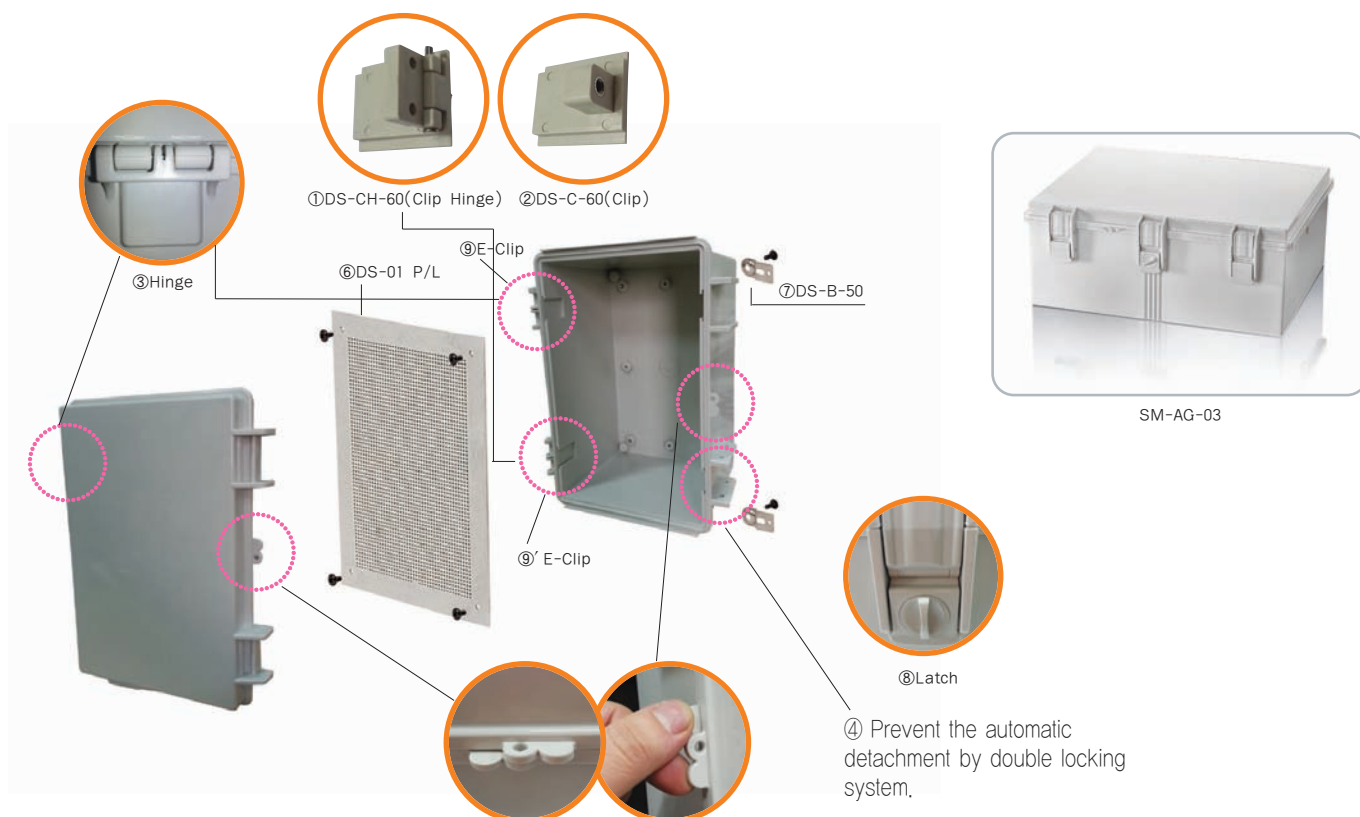
※ If you have any questions or inquiry, feel free to email to dsehibox@dsehibox.com



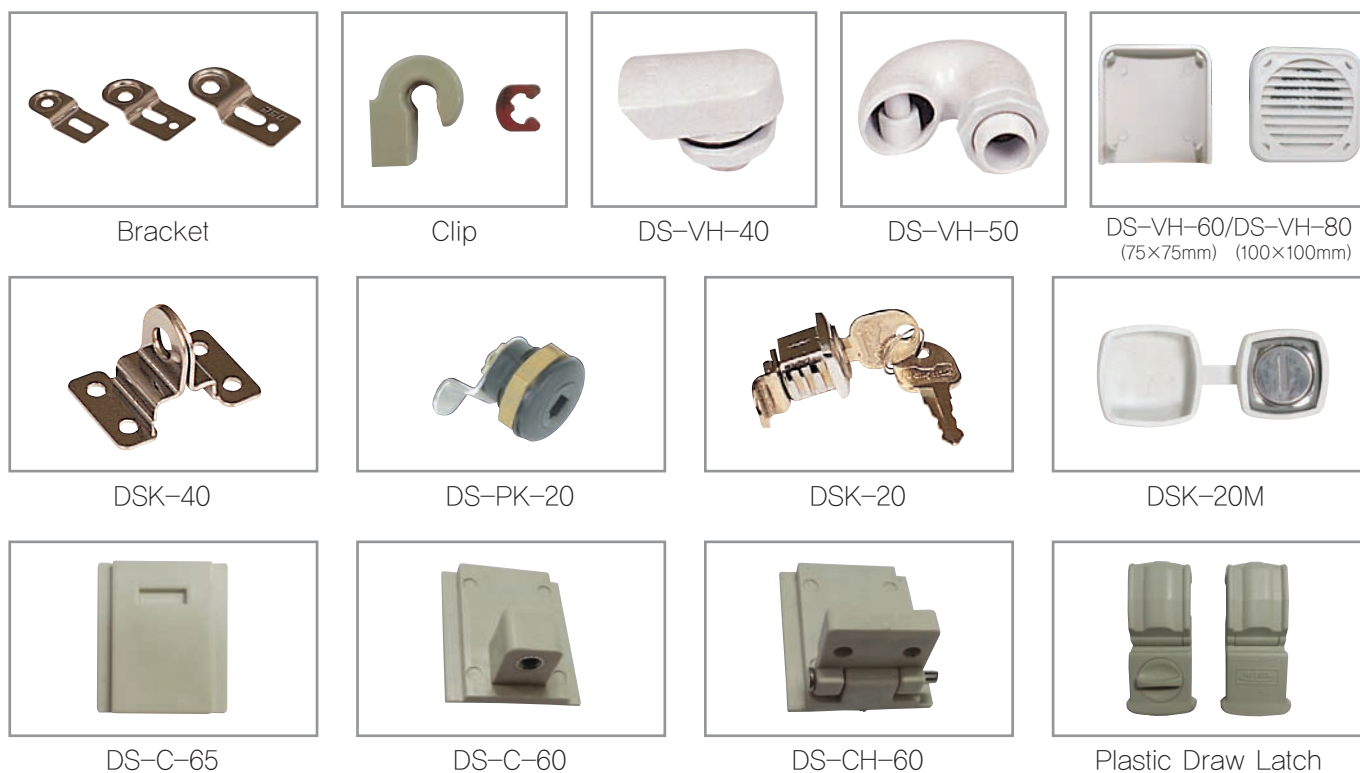
[SM-000-09]



Smart Box Assembly Drawing



Accessories

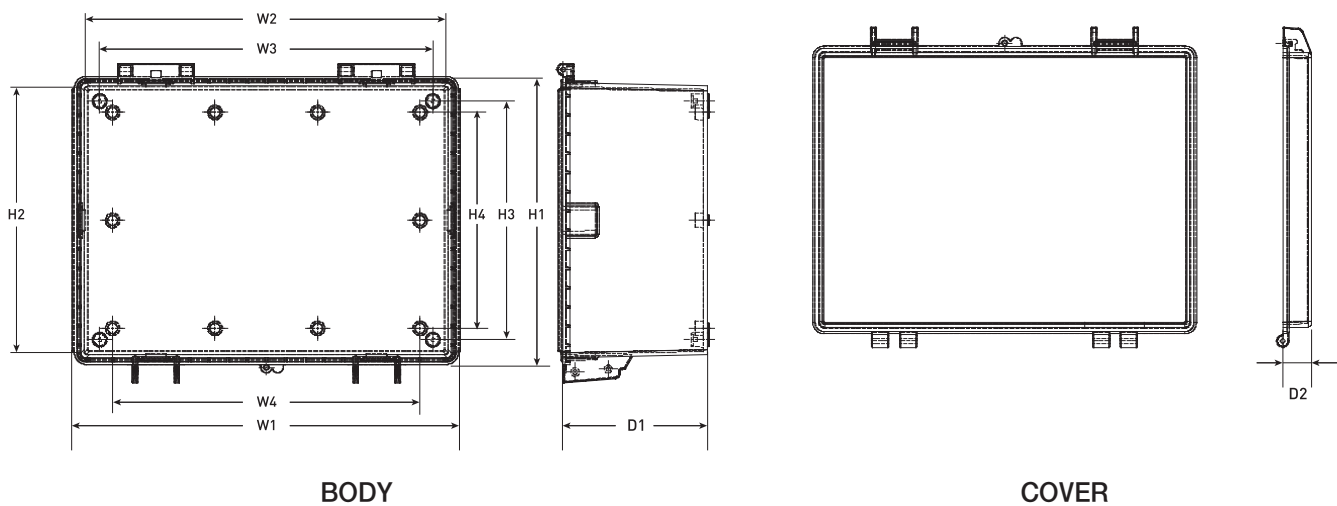


■ Please refer to Accessories List on Page 58~62.

Smart Box Drawing Information

Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
SM-015	300	280	252	225,5	200	179	152	128	120	30
SM-01	300	280	252	225,5	200	179	152	128	150	30
SM-02	400	380	347	324	300	278	278	225	150	30
SM-03	500	476	454	427	400	375	375	327	170	30
SM-09	700	665	640	570	1000	965	939	899	270	35

Dimension (Allowable error: $\pm 1\text{mm}$)



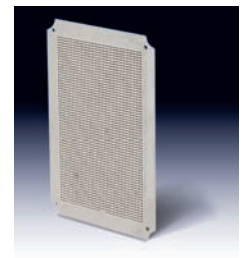
Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
SM-000-015	267×170×1,6	10,51×6,69×0,06	DS-015
SM-000-01	267×170×1,6	10,51×6,69×0,06	DS-01
SM-000-02	352×265×1,6	14,25×10,43×0,06	DS-02
SM-000-03	463×382×1,6	18,23×14,25×0,06	DS-03
SM-000-09	898×644×1,6	35,34×25,34×0,06	DS-09



Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
SM-000-015	267×170×3,4	10,51×6,69×0,13	DS-015 P/L
SM-000-01	267×170×3,4	10,51×6,69×0,13	DS-01 P/L
SM-000-02	362×265×4,3	14,25×10,43×0,17	DS-02 P/L
SM-000-03	453×362×5	18,23×14,25×0,19	DS-03 P/L



Economy Box

Plastic draw latch Type for Opening/Closing – IP67



►As any steel or other accessories are not attached to this product, it is useful for coastal place and is not corroded even at the place where climate changes largely.

As shrinkage and expansion occur simultaneously in case of high temperature or drastic cooling, it can protect housed equipment by the optimal conditions.

►It is easy to divide into upper and lower and have excellent workability. As an integrated economic plastic box, it has an excellent competitiveness, easy to work.

►It is convenient for petro-chemical, chemical plant, sewage disposal facility, fire-fighting, environmental pollution prevention facility, housing facility, coastal factory, cement, etc.

Materials & Composition Table

A G •Material:ABS
•Color: Gray

A T •Material:Cover(PC), Body(ABS)
•Color: Cover(Clear), Body(Gray)

P G •Material:AC Flammability
•Color: Gray

P T •Material:Cover(PC), Body(AC)
•Color: Cover(Clear), Body(Gray)

P C G •Material:POLYESTER
•Color: Gray

P C T •Material:Cover(PC), Body(POLYESTER)
•Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►ECONOMY Product has 6 product names as shown above and can be made of any of 4 materials shown above. Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
EN-000-1013	100	130	70	3.93 × 5.11 × 2.75	
EN-000-1015	100	150	70	3.93 × 5.90 × 2.75	
EN-000-1020	100	200	70	3.93 × 7.87 × 2.75	
EN-000-1027	100	270	70	3.93 × 10.63 × 2.75	
EN-000-1515	150	150	90	5.90 × 5.90 × 3.54	
EN-000-1520	160	210	100	6.30 × 8.27 × 3.93	
EN-000-1818	195	195	150	7.68 × 7.68 × 5.90	
EN-000-2227	225	275	120	8.86 × 10.83 × 4.72	
EN-000-2030-S	200	300	130	7.87 × 11.81 × 5.11	
EN-000-2030	200	300	160	7.87 × 11.81 × 6.29	
EN-000-2030-B	200	300	200	7.87 × 11.81 × 7.87	
EN-000-2535	250	350	150	9.84 × 13.78 × 5.90	
EN-000-2535-B	250	350	180	9.84 × 13.78 × 7.08	
EN-000-3040	300	400	160	11.81 × 15.74 × 6.29	
EN-000-3040-B	300	400	180	11.81 × 15.74 × 7.08	
EN-000-3545-S	350	450	160	13.78 × 17.71 × 6.29	
EN-000-3545	350	450	200	13.78 × 17.71 × 7.87	
EN-000-4050	400	500	160	15.74 × 19.68 × 6.29	
EN-000-4050-B	400	500	200	15.74 × 19.68 × 7.87	
EN-000-4353-S	430	530	160	16.92 × 20.86 × 6.29	
EN-000-4353	430	530	200	16.92 × 20.86 × 7.87	
EN-000-5060-S	530	630	180	20.87 × 24.80 × 7.08	
EN-000-5060	530	630	250	20.87 × 24.80 × 9.84	
EN-000-5070-S	530	730	180	20.87 × 28.74 × 7.08	
EN-000-5070	530	730	250	20.87 × 28.74 × 9.84	
EN-000-6080	600	800	280	23.62 × 31.50 × 11.02	

■ 000 mark of product at the above product list is to express a material.

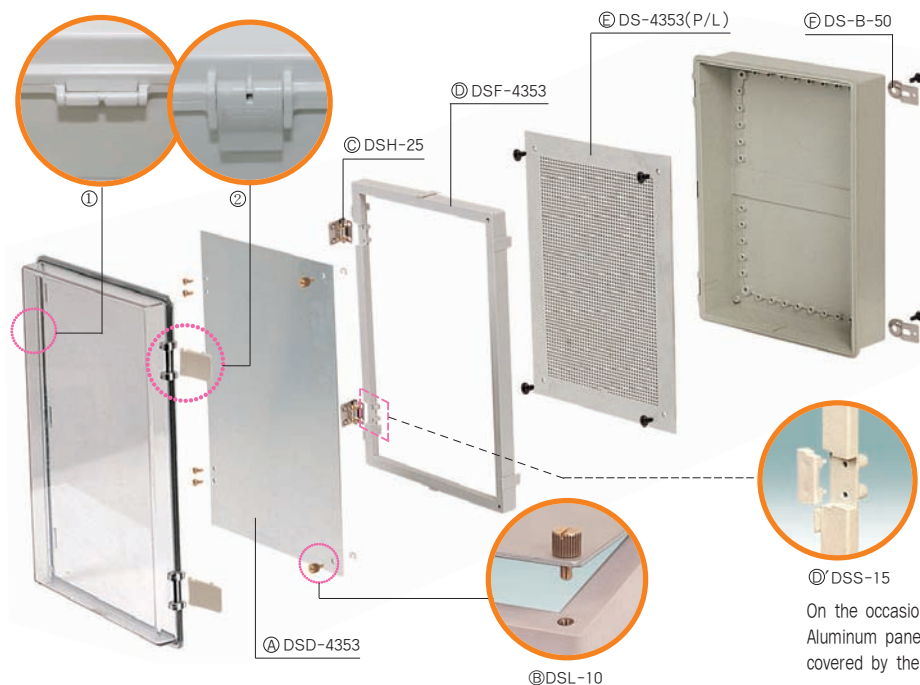
■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

Economy Box

Assembly Drawing

- An operation is simple and no corrosion, and it is solid and its appearance is beautiful
- Plastic draw latch and hinge (①,②)



Accessories



Bracket



DSD set



DS-VH-40



DS-VH-50



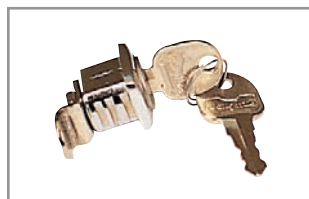
DS-VH-60/DS-VH-80
(75×75mm) (100×100mm)



DSK-40



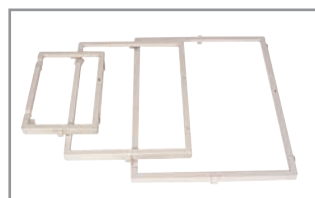
DS-PK-20



DSK-20



DSK-20M



DSF-4353, 5060, 5070 etc



DS-C-50



DS-CH-50



Plastic Draw Latch

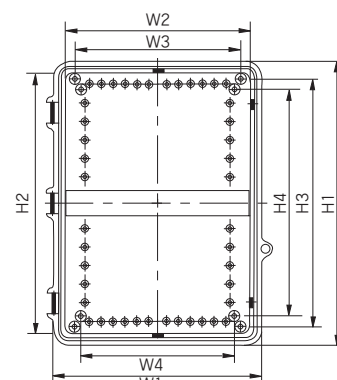
■ Please refer to Accessories List on Page 58~62.

Economy Box Drawing Information

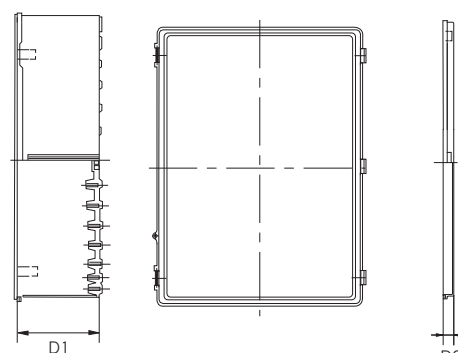
Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
EN-1013	130	111	96	80	99,5	81	66		50	20,5
EN-1015	150	131,5	116	110	99,5	81	66		50	20,5
EN-1020	200,5	181	166	159,6	99,5	81	66		50	20,5
EN-1027	270	250	236	229,6	99,5	81	66		50	20,5
EN-1515	150	136	121,8	111,5	150	136	121,8	111,5	70	20
EN-1520	211,5	193	178	160	161,5	143,5	128,2		75	25
EN-1818	196	180	163,5	144,5	196	180	163,5	144,5	120	25
EN-2227	275	255	240	210	225	205	189	160	90	30
EN-2030-S	304,5	284	256	229	203	183	154	129,5	102	30
EN-2030	304,5	284	256	229	203	183	154	129,5	132	30
EN-2030-B	304,5	284	256	229	203	183	154	129,5	173	30
EN-2535	356	330	310	271	250	230	210	179	120	30
EN-2535-B	356	330	310	271	250	230	210	179	150	30
EN-3040	410	384,5	357	330	304,5	280	255,5	231,5	132	30,5
EN-3040-B	410	385	357	330	305	280	256	231	150	30
EN-3545-S	450	423	402	365	350	321	302	274	130	30
EN-3545	450	423	402	365	350	321	302	274	170	30
EN-4050	500	478	454	425	400	378	354	339,5	130	30
EN-4050-B	500	478	454	425	400	378	354	339,5	170	30
EN-4353-S	532	500	457	420	433	399	357	328	130	30
EN-4353	532	500	457	420	433	399	357	328	170	30
EN-5060-S	634	599	576	540	534	500	477	444	150	32
EN-5060	634	600	577	540	534	500	477	445	220	32
EN-5070-S	734	699	676	644	534	499	477	444	150	30
EN-5070	734	700	677	645	534	500	477	445	220	30
EN-6080	810	777	760	704	607	574	556	517	257	25

Dimension

(Allowable error: ± 1mm)



BODY



COVER

Economy Box

Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1013	96,5×68×1,6	3,80×2,68×0,06	DS-1013
DS-000-1015	116×68×1,6	4,57×2,68×0,06	DS-1015
DS-000-1020	165,5×68×1,6	6,52×2,68×0,06	DS-1020
DS-000-1027	235×68×1,6	9,25×2,68×0,06	DS-1027
DS-000-1515	124×124×1,6	4,88×4,88×0,06	DS-1515
DS-000-1520	186×136×1,6	7,32×5,35×0,06	DS-1520
DS-000-2227	251×200×3,4	9,88×7,87×0,13	DS-2227
DS-000-2030(-S,-B)	267×170×1,6	10,51×6,69×0,06	DS-2030
DS-000-2535(-B)	321×221×1,6	12,63×8,70×0,06	DS-2535
DS-000-3040(-B)	362×265×1,6	14,25×10,43×0,06	DS-3040
DS-000-4050	463×362×1,6	18,23×14,25×0,06	DS-4050
DS-000-3545(-S)	420×307×1,6	16,54×12,09×0,06	DS-3545
DS-000-4353(-S)	463×362×1,6	18,22×14,25×0,06	DS-4353
DS-000-5060(-S)	485×575×1,6	18,31×22,64×0,06	DS-5060
DS-000-5070(-S)	680×480×1,6	26,77×18,90×0,06	DS-5070
DS-000-6080	720×520×1,6	28,35×20,47×0,06	DS-6080



Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1013	96,5×68×3,5	3,80×2,68×0,14	DS-1013 P/L
DS-000-1015	116×68×3,5	4,57×2,68×0,14	DS-1015 P/L
DS-000-1020	165,5×68×3,5	6,52×2,68×0,14	DS-1020 P/L
DS-000-1027	235×68×3,5	9,25×2,68×0,14	DS-1027 P/L
DS-000-1515	124×124×3,75	4,88×4,88×0,15	DS-1515 P/L
DS-000-1520	186×136×3,0	7,32×5,35×0,12	DS-1520 P/L
DS-000-1818	175×175×4,1	6,89×6,89×0,16	DS-1818 P/L
DS-000-2227	251×200×3,4	9,88×7,87×0,13	DS-2227 P/L
DS-000-2030(-S,-B)	267×170×3,4	10,51×6,69×0,13	DS-2030 P/L
DS-000-2535(-B)	316×217×4,3	12,44×8,54×0,17	DS-2535 P/L
DS-000-3040(-B)	362×265×3,4	14,25×10,43×0,15	DS-3040 P/L
DS-000-4050	463×362×4,3	18,23×14,25×0,17	DS-4050 P/L
DS-000-3545(-S)	420×307×4,3	16,54×12,09×0,17	DS-3545 P/L
DS-000-4353(-S)	463×362×4,3	18,23×14,25×0,17	DS-4353 P/L

Control Box

SUS draw latch Type for Opening/Closing – IP67



►It is a cabinet-shaped product that fixed with a cicada-shaped hinge and special locking system and it is easy to close and open.

►As products are manufactured at factories that we owned, the price is competitive and various sizes and accessories satisfy customers.

►It is useful for control box, terminal box, power distribution panel, measuring equipment box, etc.

Materials & Composition Table

A G	•Material:ABS •Color: Gray	A T	•Material:Cover(PC), Body(ABS) •Color: Cover(Clear), Body(Gray)
P G	•Material:AC Flammability •Color: Gray	P T	•Material:Cover(PC), Body(AC) •Color: Cover(Clear), Body(Gray)
P C G	•Material:POLYESTER •Color: Gray	P C T	•Material:Cover(PC), Body(POLYESTER) •Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►CONTROL BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. CONTROL BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-000-012	225	275	120	8.86×10.83×4.72	
DS-000-012-W	275	225	120	10.83×8.86×4.72	
DS-000-013	200	300	130	7.87×11.81×5.12	
DS-000-013-W	300	200	130	11.81×7.87×5.12	
DS-000-015	200	300	150	7.87×11.81×5.91	
DS-000-015-W	300	200	150	11.81×7.87×5.91	
DS-000-01	200	300	180	7.87×11.81×7.09	
DS-000-01-W	300	200	180	11.81×7.87×7.09	
DS-000-025	300	400	150	11.81×15.75×5.91	
DS-000-025-W	400	300	150	15.75×11.81×5.91	
DS-000-02	300	400	180	11.81×15.75×7.09	
DS-000-02-W	400	300	180	15.75×11.81×7.09	
DS-000-036	400	500	160	15.75×19.63×6.30	
DS-000-036-W	500	400	160	19.63×15.75×6.30	
DS-000-03	400	500	200	15.75×19.63×7.87	
DS-000-03-W	500	400	200	19.63×15.75×7.87	
DS-000-04	400	600	230	15.75×23.62×9.06	

■ 000 mark of product at the above product list is to express a material.

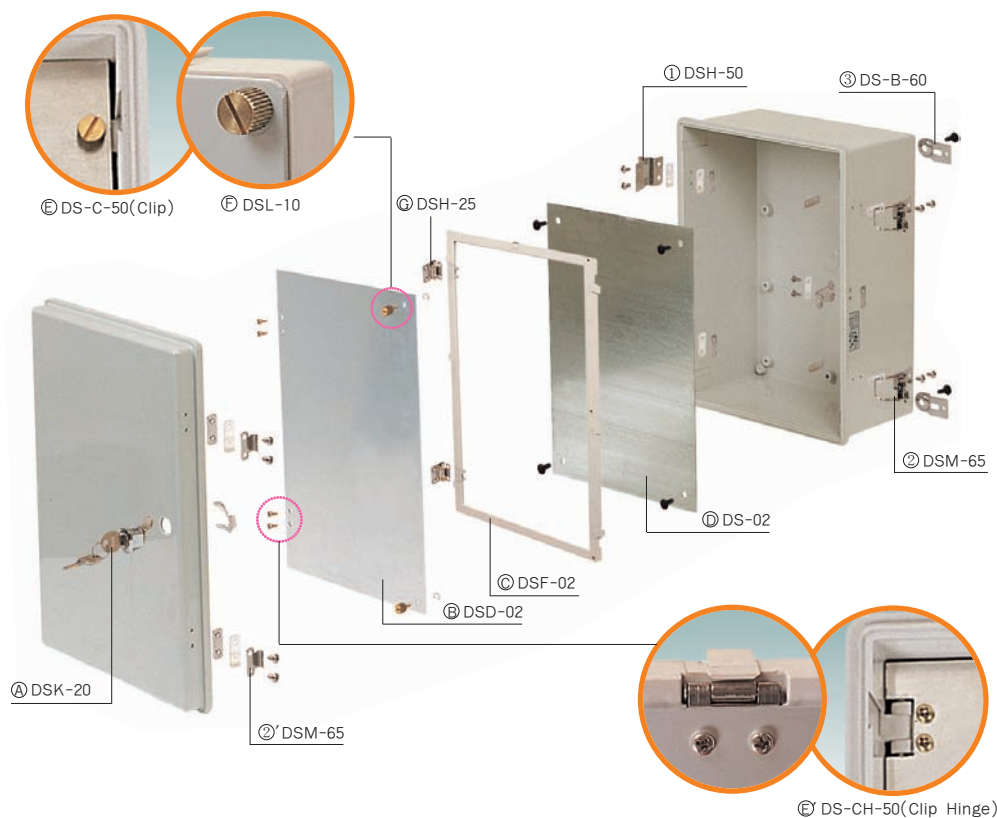
■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

Control Box

Assembly Drawing

- Simple locking device of multipurpose Frame.



■ DS-PG-02

- Aluminum Panel should be equipped to the multipurpose Frame which is combined the stability and convenience.
- Locking can be maintained by an installation of Key (DSK-20)
- ① ② - Basic specification
- ③, ④~⑥ - Optional specifications

Accessories



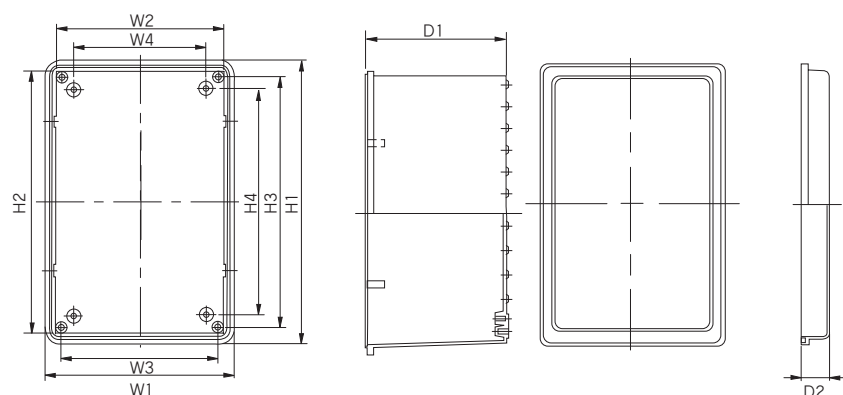
■ Please refer to Accessories List on Page 58~62.

Control Box Drawing Information

Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
DS - 012	276	256	240	210	225	205	189	160	92	30
DS - 012-W	276	256	240	210	225	205	189	160	92	30
DS - 013	300	280	252	226	200	178	152	129	100	30
DS - 013-W	300	280	252	226	200	178	152	129	100	30
DS - 015	300	280	252	226	200	178	152	129	122	30
DS - 015-W	300	280	252	226	200	178	152	129	122	30
DS - 01	300	279	253	225	200	178	152	128	150	30
DS - 01-W	300	279	253	225	200	178	152	128	150	30
DS - 025	400	379	352	325.5	300	279	252	228	120	30
DS - 025-W	400	379	352	325.5	300	279	252	228	120	30
DS - 02	400	380	352	325	300	281	252	230	148	30
DS - 02-W	400	380	352	325	300	281	252	230	148	30
DS - 036	500	478	454	425	400	378	354	230	130	30
DS - 036-W	500	478	454	425	400	378	354	340	130	30
DS - 03	500	479	452	420	400	379	352	340	170	30
DS - 03-W	500	479	452	420	400	379	352	328	170	30
DS - 04	600	579	552	525	400	378	352	328	200	30

Dimension

(Allowable error: $\pm 1\text{mm}$)



BODY

COVER

Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-012(-W)	251×200×1.6	9.88×7.87×0.06	DS-012
DS-000-013(-W)	267×170×1.6	10.51×6.69×0.06	DS-013
DS-000-015(-W)	267×170×1.6	10.51×6.69×0.06	DS-015
DS-000-01(-W)	267×170×1.6	10.51×6.69×0.06	DS-01
DS-000-025(-W)	362×265×1.6	14.25×10.43×0.06	DS-025
DS-000-02(-W)	362×265×1.6	14.25×10.43×0.06	DS-02
DS-000-036(-W)	463×362×1.6	18.23×14.25×0.06	DS-036
DS-000-03(-W)	463×362×1.6	18.23×14.25×0.06	DS-03
DS-000-04	560×362×1.6	22.05×14.25×0.06	DS-04



Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-012(-W)	251×200×3.4	9.88×7.87×0.13	DS-012 P/L
DS-000-013(-W)	267×170×3.4	10.51×6.69×0.13	DS-013 P/L
DS-000-015(-W)	267×170×3.4	10.51×6.69×0.13	DS-015 P/L
DS-000-01(-W)	267×170×3.4	10.51×6.69×0.13	DS-01 P/L
DS-000-025(-W)	362×265×4.3	14.25×10.43×0.17	DS-025 P/L
DS-000-02(-W)	362×265×4.3	14.25×10.43×0.17	DS-02 P/L
DS-000-036(-W)	463×362×5	18.23×14.25×0.19	DS-036 P/L
DS-000-03(-W)	463×362×5	18.23×14.25×0.19	DS-03 P/L

Nice Box

Plastic draw latch type for opening/closing – IP67



► It is a plastic box with a cicada-shaped hinge type and is easier to work than steel hinge type. In addition, it has a good exterior and excellent workability.

► It uses strong plastic hinge and a cicada-shaped buckle and is not corroded. In addition, it is easy to manipulate. That is why lots of customers prefer it.

► It can be used for various purposes such as small terminal box, signal device, terminal, pull box for lighting, environmental pollution prevention facility, housing facility and various sizes are available.

Materials & Composition Table

A G

•Material:ABS
•Color: Gray

A T

•Material:Cover(PC), Body(ABS)
•Color: Cover(Clear), Body(Gray)

P G

•Material:AC Flammability
•Color: Gray

P T

•Material:Cover(PC), Body(AC)
•Color: Cover(Clear), Body(Gray)

P C G

•Material:POLYESTER
•Color: Gray

P C T

•Material:Cover(PC), Body(POLYESTER)
•Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►NICE BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. NICE BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

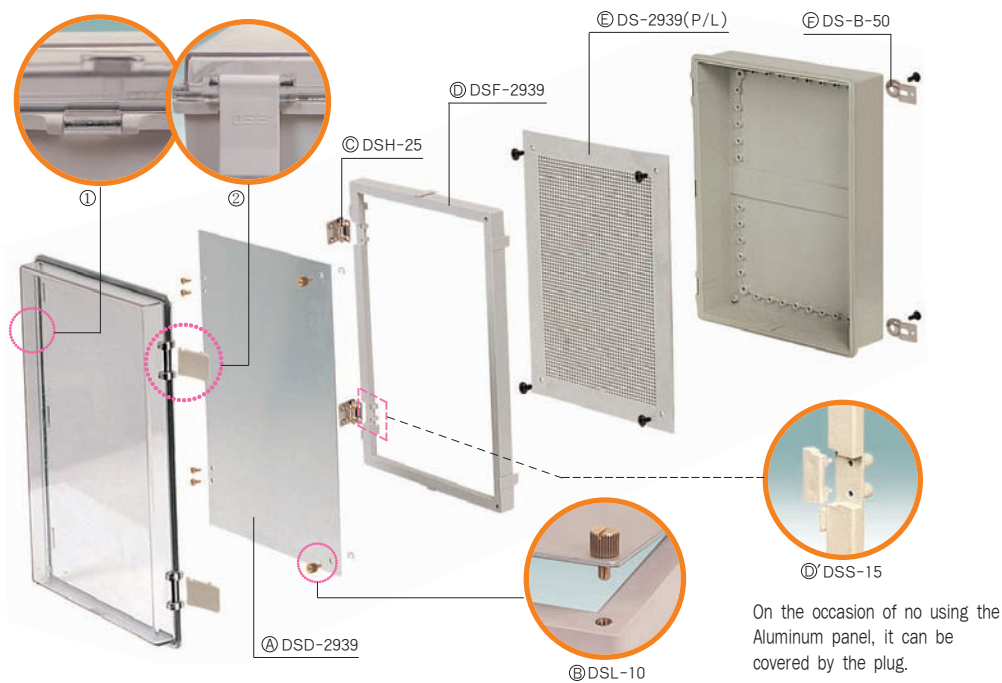
Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
NE-000-1515	150	150	90	5.91 × 5.91 × 3.54	
NE-000-1722	170	220	110	6.69 × 8.66 × 4.33	
NE-000-1722-B	170	220	130	6.69 × 8.66 × 5.12	
NE-000-1727	170	270	110	6.69 × 10.63 × 4.33	
NE-000-1727-B	170	270	130	6.69 × 10.63 × 5.12	
NE-000-2919-S	290	190	100	11.42 × 7.48 × 3.94	
NE-000-2919	290	190	140	11.42 × 7.48 × 5.51	
NE-000-1929-S	190	290	100	7.48 × 11.42 × 3.94	
NE-000-1929-M	190	290	125	7.48 × 11.42 × 4.92	
NE-000-1929	190	290	140	7.48 × 11.42 × 5.51	
NE-000-2530-S	275	325	125	10.83 × 12.80 × 4.92	
NE-000-2530	275	325	180	10.83 × 12.80 × 7.09	
NE-000-2535	270	370	150	10.63 × 14.57 × 5.91	
NE-000-3030-S	330	330	130	12.99 × 12.99 × 5.12	
NE-000-3030	330	330	180	12.99 × 12.99 × 7.09	
NE-000-2939-S	290	390	100	11.42 × 15.35 × 3.94	
NE-000-2939-MS	290	390	125	11.42 × 15.35 × 4.92	
NE-000-2939-M	290	390	140	11.42 × 15.35 × 5.51	
NE-000-2939	290	390	160	11.42 × 15.35 × 6.30	
NE-000-3546-S	370	485	160	14.57 × 19.09 × 6.30	
NE-000-3546	370	485	200	14.57 × 19.09 × 7.87	

■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

- An operation is simple and no corrosion, and it is solid and its appearance is beautiful.
- Plastic draw latch and hinge (①, ②)



■NE-PT-2939

Accessories



Bracket



DSD set



DS-VH-40



DS-VH-50



DS-VH-60/DS-VH-80
(75×75mm) (100×100mm)



DSK-40



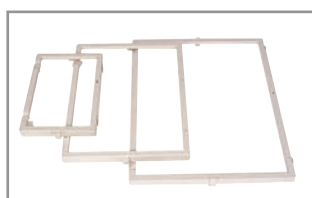
DS-PK-20



DSK-20



DSK-20M



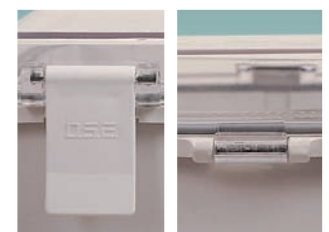
DSF-1929, 2939, 3546 etc



DS-C-50
DS-C-50S



DS-CH-50



Plastic latch, hinge

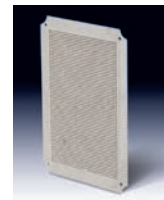
■Please refer to Accessories List on Page 58~62.

Nice Box Drawing Information

Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
NE - 1515	150	130	120	109	150	130	120		70	21
NE - 1722	222,7	200	182	161	172,7	150	132		80	30
NE - 1727	274	254	236	210	172	152	134		80	30
NE - 1929-S	287	265	253	210	190	168	156	120	70	30
NE - 1929-M	287	265	253	210	190	168	156	120	95	30
NE - 1929	287	266	253	210	190	169	156	120	110	30
NE - 2919-S	190	168	156	120	287	265	253	210	70	30
NE - 2919	190	168	156	120	287	265	253	210	110	30
NE - 2530-S	325	305	295	275	275	255	245	225	95	30
NE - 2530	325	305	295	275	275	255	245	225	150	30
NE - 3030-S	330	307	280	254	330	307	280	254	104	30
NE - 3030	330	307	280	250	330	307	280	250	149	30
NE - 2939-S	397	380	360	323	297	276	265	224	70	30
NE - 2939-MS	397	380	360	323	297	276	265	224	95	30
NE - 2939-M	397	380	360	323	297	276	265	224	110	30
NE - 2939	397	378	360	325	297	277	265	228	130	30
NE - 2535	369	349	330	290	269	249	230	192	120	30
NE - 3546-S	486	460	442	410	372	350	324	305	130	30
NE - 3546	486	466	442	410	372	350	324	296	169	30

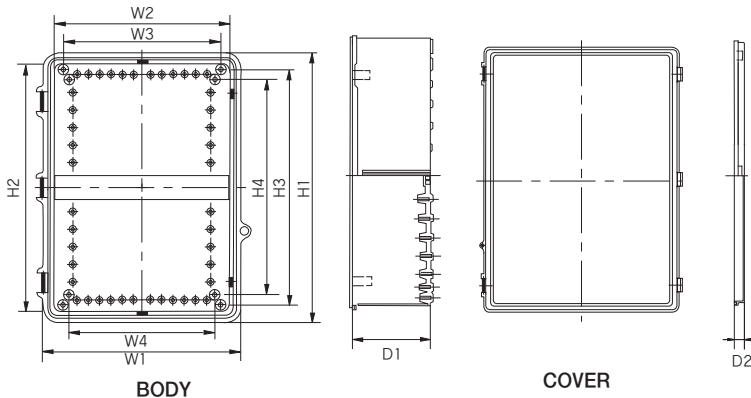
Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1515	124×124×1,6	4,88×4,88×0,06	DS-1515
DS-000-1722(-B)	186×136×1,6	7,32×5,35×0,06	DS-1722
DS-000-1727(-B)	235,6×136×1,6	9,28×5,35×0,06	DS-1727
DS-000-1929(-S,M)	251,5×161×1,6	9,90×6,34×0,06	DS-1929
DS-000-2919(-S)	251,5×161×1,6	9,90×6,34×0,06	DS-2919
DS-000-2530(-S)	295×245×1,6	11,61×9,65×0,06	DS-2530
DS-000-2535	320,9×220,9×1,6	12,63×8,70×0,06	DS-2535
DS-000-2939(-S,M,MS)	362×265×1,6	14,25×10,43×0,06	DS-2939
DS-000-3030(-S)	291×291×1,6	11,46×11,46×0,06	DS-3030
DS-000-3546(-S)	447×333×1,6	17,60×13,11×0,06	DS-3546



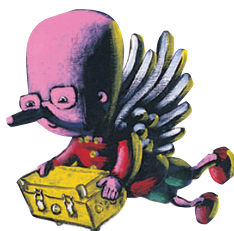
Dimension

(Allowable error: ± 1mm)



Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1515	124×124×3,75	4,88×4,88×0,15	DS-1515 P/L
DS-000-1722(-B)	186×136×3,0	7,32×5,35×0,12	DS-1722 P/L
DS-000-1727(-B)	235×136×3,75	9,25×5,35×0,15	DS-1727 P/L
DS-000-1929(-S,M)	252×161×3,4	9,92×6,34×0,13	DS-1929 P/L
DS-000-2919(-S)	252×161×3,4	9,92×6,34×0,13	DS-2919 P/L
DS-000-2530(-S)	237×287×4,0	9,33×11,30×0,16	DS-2530 P/L
DS-000-2535	316×217×4,3	12,44×8,54×0,17	DS-2535 P/L
DS-000-2939(-S,M,MS)	362×265×3,9	14,25×10,43×0,15	DS-2939 P/L
DS-000-3030(-S)	287×287×3,3	11,30×11,30×0,13	DS-3030 P/L
DS-000-3546(-S)	447×333×4,3	17,60×13,11×0,17	DS-3546 P/L



Terminal Box

Plastic Bolt Type for Opening/Closing – IP67

Terminal Box



- It is made of ABS, PC and non-flammable materials that have a good exterior, excellent processing performance and strength.
- As a conventional plastic box, it is a popular product that is approved by various standard organization such as TUV of Germany, VDE, CE of European Union and Consumer Association.
- It is convenient for the general & mechanical usages such as terminal box, measuring equipment box, gauge box, power distribution, control box, etc.

Materials & Composition Table

A G	•Material:ABS •Color: Gray	A T	•Material:Cover(PC), Body(ABS) •Color: Cover(Clear), Body(Gray)
P G	•Material:AC Flammability •Color: Gray	P T	•Material:Cover(PC), Body(AC) •Color: Cover(Clear), Body(Gray)
P C G	•Material:POLYESTER •Color: Gray	P C T	•Material:Cover(PC), Body(POLYESTER) •Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene	P C:PolyCarbonate
Polyester : PBT+PC	AC:ABS(30%)+PC(70%)

►TERMINAL BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. TERMINAL BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-000-1919	190	190	130	7.48×7.48×5.12	
DS-000-2819	280	190	130	11.02×7.48×5.12	
DS-000-2819-1	280	190	180	11.02×7.48×7.09	
DS-000-2819-B	280	190	180	11.02×7.48×7.09	
DS-000-2819-B1	280	190	230	11.02×7.48×9.05	
DS-000-2819-1M	280	190	155	11.02×7.48×6.10	
DS-000-3819	380	190	130	14.96×7.48×5.12	
DS-000-3819-1	380	190	180	14.96×7.48×7.09	
DS-000-3819-B	380	190	180	14.96×7.48×7.09	
DS-000-3819-B1	380	190	230	14.96×7.48×9.05	
DS-000-2828	280	280	130	11.02×11.02×5.12	
DS-000-3428	340	280	130	13.39×11.02×5.12	
DS-000-3828	380	280	130	14.96×11.02×5.12	
DS-000-3828-1	380	280	180	14.96×11.02×7.09	
DS-000-3828-B	380	280	180	14.96×11.02×7.09	
DS-000-3828-B1	380	280	230	14.96×11.02×9.05	
DS-000-5628	560	280	130	22.05×11.02×5.12	
DS-000-5638	560	380	180	22.05×14.96×7.09	

■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

Terminal Box

SUS draw latch Type for Opening/Closing – IP67



►It is made of ABS, PC and non-flammable materials that have a good exterior, excellent processing performance and strength.

►As a conventional plastic box, it is a popular product that is approved by various standard organization such as TUV of Germany, VDE, CE of European Union and Consumer Association.

►It is convenient for the general & mechanical usages such as terminal box, measuring equipment box, gauge box, power distribution, control box, etc.

Materials & Composition Table

A G	•Material:ABS •Color: Gray	A T	•Material:Cover(PC), Body(ABS) •Color: Cover(Clear), Body(Gray)
P G	•Material:AC Flammability •Color: Gray	P T	•Material:Cover(PC), Body(AC) •Color: Cover(Clear), Body(Gray)
P C G	•Material:POLYESTER •Color: Gray	P C T	•Material:Cover(PC), Body(POLYESTER) •Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►TERMINAL BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. TERMINAL BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			Inch	Others
	W	H	D		
DS-000H-1919	190	190	130	7.48×7.48×5.12	
DS-000H-2819	190	280	130	7.48×11.02×5.12	
DS-000H-2819-1	190	280	180	7.48×11.02×7.09	
DS-000H-2819-B	190	280	180	7.48×11.02×7.09	
DS-000H-2819-B1	190	280	230	7.48×11.02×9.05	
DS-000H-2819-1M	190	280	155	7.48×11.02×6.10	
DS-000H-1928	280	190	130	11.02×7.48×5.12	
DS-000H-1928-1	280	190	180	11.02×7.48×7.09	
DS-000H-1928-B	280	190	180	11.02×7.48×7.09	
DS-000H-1928-B1	280	190	230	11.02×7.48×9.05	
DS-000H-1928-1M	280	190	155	11.02×7.48×6.10	
DS-000H-3819	190	380	130	7.48×14.96×5.12	
DS-000H-3819-1	190	380	180	7.48×14.96×7.09	
DS-000H-3819-B	190	380	180	7.48×14.96×7.09	
DS-000H-3819-B1	190	380	230	7.48×14.96×9.05	
DS-000H-1938	380	190	130	14.96×7.48×5.12	
DS-000H-1938-1	380	190	180	14.96×7.48×7.09	
DS-000H-1938-B	380	190	180	14.96×7.48×7.09	
DS-000H-1938-B1	380	190	230	14.96×7.48×9.05	
DS-000H-2828	280	280	130	11.02×11.02×5.12	
DS-000H-3428	280	340	130	11.02×13.39×5.12	
DS-000H-2834	340	280	130	13.39×11.02×5.12	
DS-000H-3828	280	380	130	14.96×11.02×5.12	
DS-000H-3828-1	280	380	180	14.96×11.02×7.09	
DS-000H-3828-B	280	380	180	14.96×11.02×7.09	
DS-000H-3828-B1	280	380	230	14.96×11.02×9.05	
DS-000H-2838	280	380	130	11.02×14.96×5.12	
DS-000H-2838-1	280	380	180	11.02×14.96×7.09	
DS-000H-2838-B	280	380	180	11.02×14.96×7.09	
DS-000H-2838-B1	280	380	230	11.02×14.96×9.05	
DS-000H-5628	280	560	130	11.02×22.05×5.12	
DS-000H-5638	380	560	180	14.96×22.02×5.12	
DS-000H-2856	560	280	130	22.05×11.02×5.12	
DS-000H-3856	560	380	180	22.05×14.96×7.09	

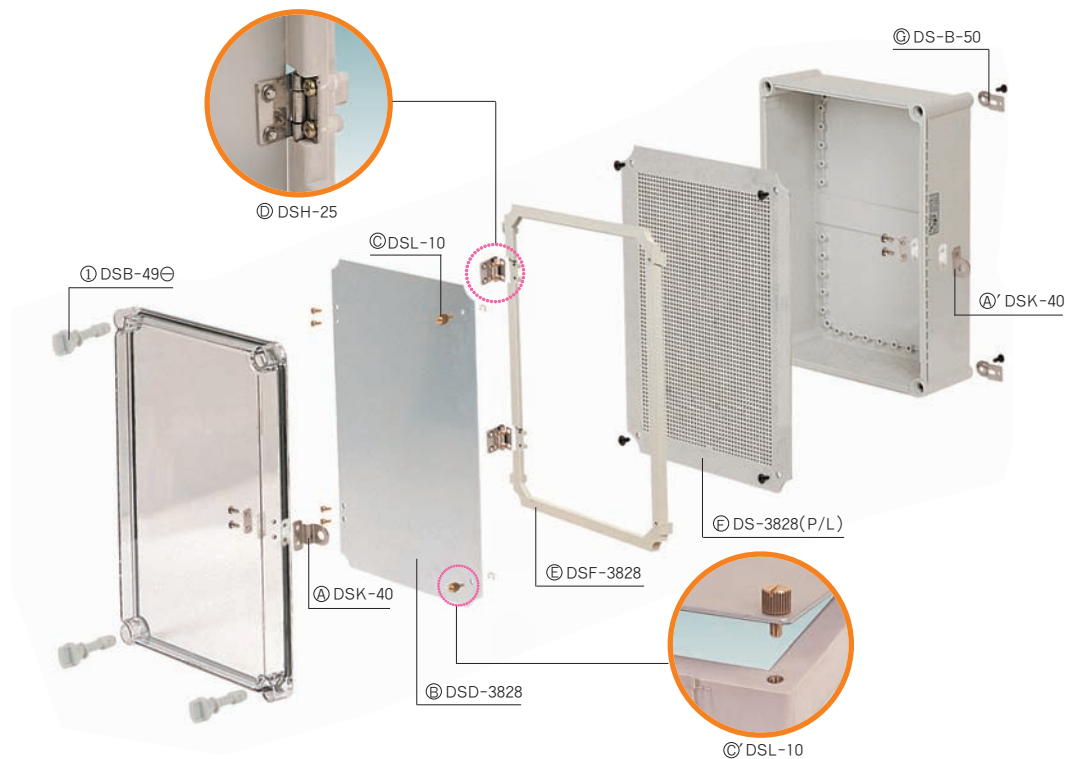
■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

Terminal Box

Assembly Drawing



■DS-PT-3828

- Screw type is a basic specification
- Aluminum panel was equipped utilized by multipurpose Frame.
- Plastic panel equipped which is convenient to install the equipments without a basic plan.
- ① -Basic specification
- Ⓐ~Ⓒ-Optional specification

Accessories



Bracket



DSB-49 ⊕⊖



DS-VH-40



DS-VH-50



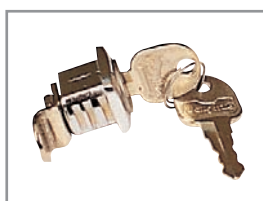
DS-VH-60/DS-VH-80
(75×75mm) (100×100mm)



DSK-40



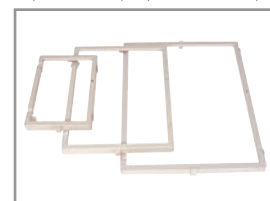
DS-PK-20



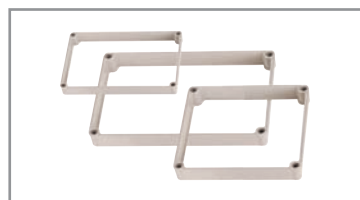
DSK-20



DSK-20M



DSF-1928, 2828, 3828 etc



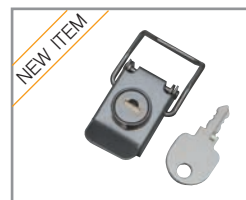
EF-□□-1919, 2828, 3828,
5628, 5638



DSM-55



DSH-50



DSM-65K



DSM-65K

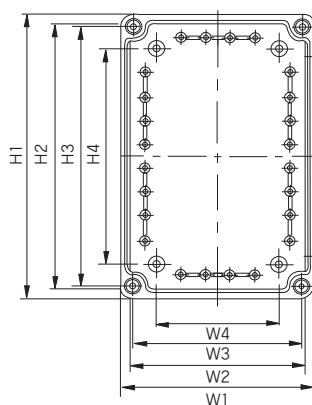
■Please refer to Accessories List on Page 58~62.

Terminal Box Drawing Information

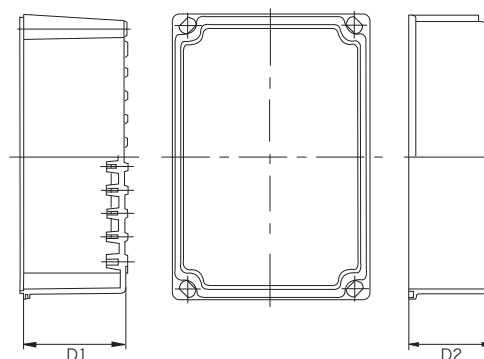
Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
DS - 1919	190	174	165	120	190	174	165	120	98	30
DS - 2819	280	266	255	210	190	170	165	120	98	30
DS - 2819-1	280	266	255	210	190	170	165	120	98	80
DS - 2819-B	280	266	255	210	190	170	165	120	148	30
DS - 2819-B1	280	266	255	210	190	170	165	120	148	80
DS - 2819-1M	280	266	255	210	190	170	165	120	98	55
DS - 2828	280	260	255	210	280	260	255	210	98	30
DS - 3428	341	320	316	270	280	260	256	210	100	30
DS - 3828	380	359	355	310	280	259	255	210	98	30
DS - 3828-1	380	359	355	310	280	259	255	210	98	80
DS - 3828-B	380	359	355	310	280	259	255	210	148	30
DS - 3828-B1	380	359	355	310	280	259	255	210	148	80
DS - 3819	382	366	355	310	192	172	165	120	98	30
DS - 3819-1	382	366	355	310	192	172	165	120	98	80
DS - 3819-B	382	366	355	310	192	172	165	120	148	30
DS - 3819-B1	382	366	355	310	192	172	165	120	148	80
DS - 5628	560	540	535	490	280	260	255	220	98	30
DS - 5638	560	540	535	490	380	360	355	311	148	30

Dimension

(Allowable error: $\pm 1\text{mm}$)



BODY



COVER

Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1919	161 × 161 × 1,6	6,34 × 6,34 × 0,06	DS-1919
DS-000-2819(-1,-B,-B1,-1M)	251,5 × 161 × 1,6	9,90 × 6,34 × 0,06	DS-2819
DS-000-3819(-1,-B,-B1)	352,5 × 161 × 1,6	13,88 × 6,34 × 0,06	DS-3819
DS-000-2828	251 × 251 × 1,6	9,88 × 9,88 × 0,06	DS-2828
DS-000-3428	312 × 251 × 1,6	12,28 × 9,88 × 0,06	DS-2834
DS-000-3828(-1,-B,-B1)	351 × 251 × 1,6	13,82 × 9,88 × 0,06	DS-2838
DS-000-5628	254,5 × 532 × 1,6	10,02 × 20,94 × 0,06	DS-5628
DS-000-5638	345,5 × 532 × 1,6	13,60 × 20,94 × 0,06	DS-5638

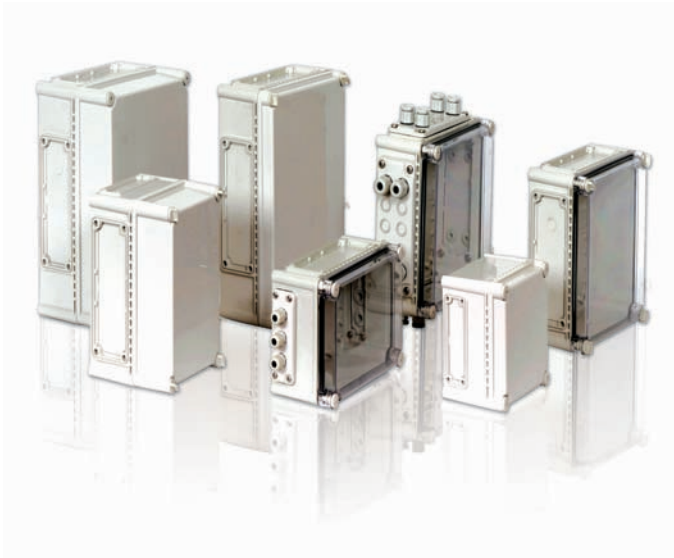


Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1919	160 × 160 × 4	6,30 × 6,30 × 0,16	DS-1919 P/L
DS-000-2819(-1,-B,-B1,-1M)	252 × 161 × 3,4	9,84 × 6,34 × 0,13	DS-2819 P/L
DS-000-3819(-1,-B,-B1)	155 × 335 × 4	6,10 × 13,19 × 0,16	DS-3819 P/L
DS-000-2828	267 × 267 × 3,3	10,51 × 10,51 × 0,13	DS-2828 P/L
DS-000-3428	240 × 300 × 4	9,45 × 11,81 × 0,16	DS-2834 P/L
DS-000-3828(-1,-B,-B1)	351 × 251 × 4,3	13,78 × 9,88 × 0,17	DS-2838 P/L

K Terminal Box

Plastic Bolt Type for Opening/Closing – IP67



►Special packing is built in plates whose structure is useful for the installation of gland or connector.

►K terminal box is a product having all merits of DSE HI BOX whose various usages satisfy customers.

►It is convenient for the usages such as terminal box, incoming panel, measuring equipment box, terminal, control box, etc.

Materials & Composition Table

Gray

- Material : ABS
- Color : Gray

Clear

- Material : Cover(PC), Body(ABS)
- Color : Cover(Clear), Body(Gray)

K G

- BODY : Gray
- COVER : Gray

K T

- BODY : Gray
- COVER : Clear

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►K TERMINAL BOX Product has 2 product names as shown above and can be made of any of 4 materials shown above. K TERMINAL BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

※At present, ABS or PC material product is sold and for other materials, please contact our headquarters.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-000-1919	190	190	130	7.48×7.48×5.12	
DS-000-2819	280	190	130	11.02×7.48×5.12	
DS-000-2819-1	280	190	180	11.02×7.48×7.09	
DS-000-2828	280	280	130	11.02×11.02×5.12	
DS-000-3828	380	280	130	14.96×11.02×5.12	
DS-000-3828-1	380	280	180	14.96×11.02×7.09	

■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

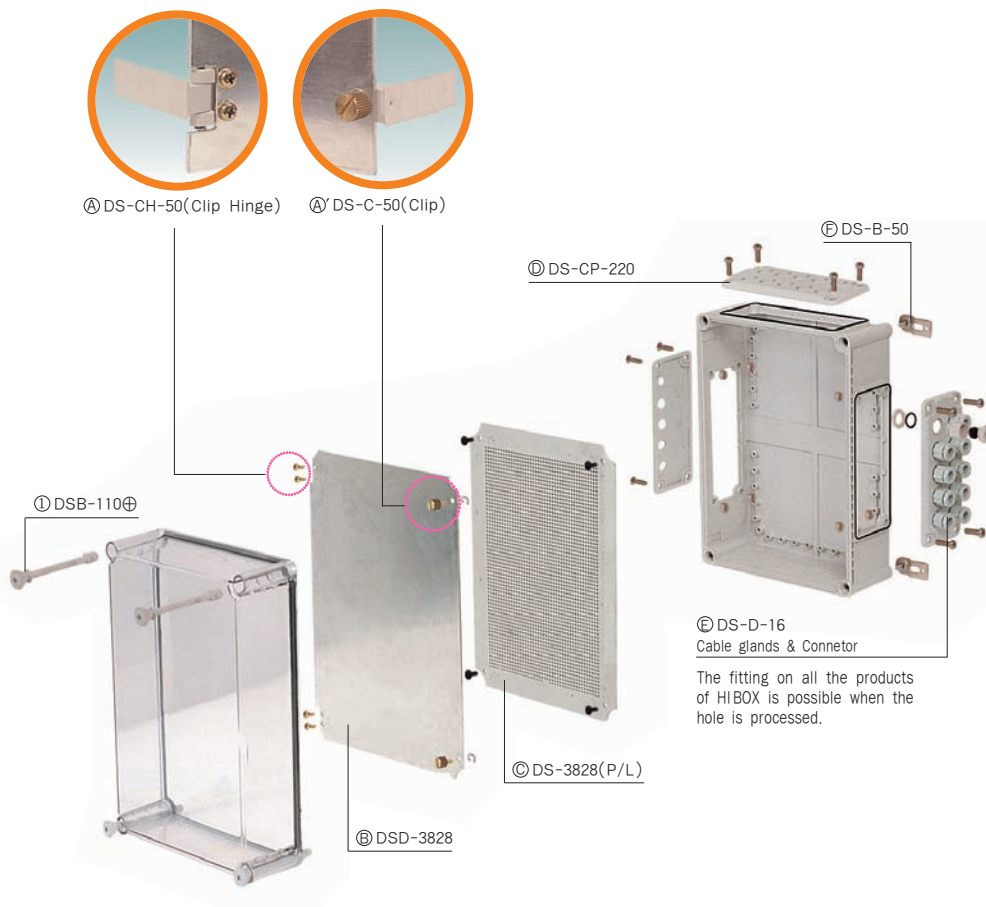
Model	Height×Width (Unit: mm Including cover)(inch)
DS-CP-220	220×85 / 8.66×3.35
DS-CP-140	140×50 / 5.51×1.97

■ Applicable Cable Gland & Connector

Model	DS-CP-220	DS-CP-140
Cable Gland	DS-D-12 DS-D-16	DS-D-12
Connector	DS-PG-11 DS-PG-16	DS-PG-11

K Terminal Box

Assembly Drawing



■DS-KT-3828-1

- Installing 80mm height of clear cover also, cable gland, connector of K Terminal Box.
- Aluminum panel installation is possible with a utilization of DS-CH-50

- ① - Basic specification
- Ⓐ ~ Ⓔ - Optional specification

Accessories



Bracket



DSB-49 ⊕⊖



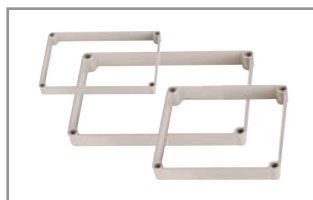
DS-VH-40



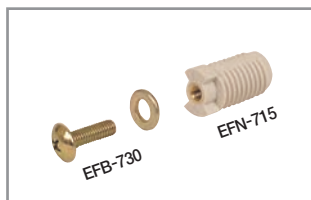
DS-VH-50



DS-VH-60/DS-VH-80
(75×75mm) (100×100mm)



EF-□□-1919, 2828,
3828



EFB-730, EFN-715



DS-CP-140



Gasket

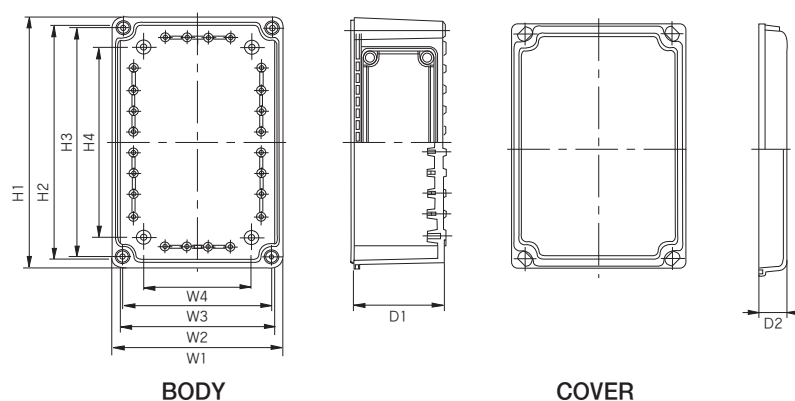
■ Please refer to Accessories List on Page 58~62.

K Terminal Box Drawing Information

Model \ Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
DS - 1919	190	174	165	120	190	174	165	120	98	30
DS - 2819	280	266	255	210	190	170	165	120	98	30
DS - 2819 -1	280	266	255	210	190	170	165	120	98	80
DS - 2828	280	260	255	210	280	260	255	210	98	30
DS - 2838	380	360	355	310	280	260	255	210	98	30
DS - 2838-1	380	360	355	310	280	260	255	210	98	80

Dimension

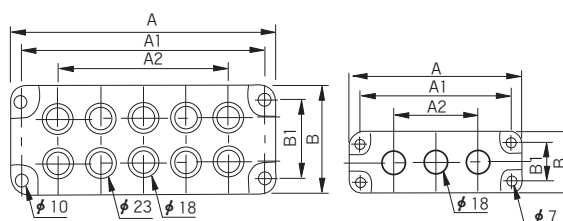
(Allowable error: ± 1mm)



DS-CP-220



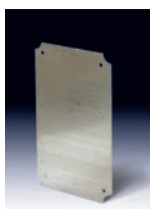
DS-CP-140



(Allowable error: ± 1mm)

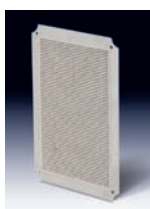
Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1919	161× 160× 1,6	6,34× 6,30× 0,06	DS-1919
DS-000-2819(-1)	251,5× 161× 1,6	9,90× 6,34× 0,06	DS-2819
DS-000-2828	251× 251× 1,6	9,88× 9,88× 0,06	DS-2828
DS-000-3828(-1)	351× 251× 1,6	13,82× 9,88× 0,06	DS-3828



Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-1919	160× 160× 4	6,30× 6,30× 0,16	DS-1919 P/L
DS-000-2819(-1)	252× 161× 3,4	9,84× 6,34× 0,13	DS-2819 P/L
DS-000-2828	267× 267× 3,3	10,51× 10,51× 0,13	DS-2828 P/L
DS-000-3828(-1)	351× 251× 4,3	13,82× 9,88× 0,17	DS-3828 P/L



Model \ Division	A	A1	A2	B	B1
DS-CP-220	219	193	135	85	62
DS-CP-140	137	120	67	47	30

Switch Box

Plastic Bolt Type for Opening/Closing – IP67



►It weighs a fourth as much as steel box and is convenient for carrying or working. No corrosion and excellent insulation.

►It is an excellent product that passed a thorough waterproof, dustproof impact-resistant test.

►It is useful for the usages such as DIN-Rail and button box, small terminal, signal device, measuring equipment, communication connection box, etc and is easy to mount.

Materials & Composition Table

A G	•Material:ABS •Color: Gray	A T	•Material:Cover(PC), Body(ABS) •Color: Cover(Clear), Body(Gray)
P G	•Material:AC Flammability •Color: Gray	P T	•Material:Cover(PC), Body(AC) •Color: Cover(Clear), Body(Gray)
P C G	•Material:POLYESTER •Color: Gray	P C T	•Material:Cover(PC), Body(POLYESTER) •Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►SWITCH BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. SWITCH BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-000-0506-S	50	65	35	1.97 × 2.56 × 1.38	
DS-000-0506	50	65	55	1.97 × 2.56 × 2.17	
DS-000-0808	80	82	60	3.15 × 3.23 × 2.36	
DS-000-0712	75	125	75	2.92 × 4.92 × 2.92	
DS-000-0712-1	75	125	100	2.92 × 4.92 × 3.94	
DS-000-0712-2	75	125	125	2.92 × 4.92 × 4.92	
DS-000-0811-S	80	110	45	3.15 × 4.33 × 1.77	
DS-000-0811-S1	80	110	60	3.15 × 4.33 × 2.36	
DS-000-0811	80	110	70	3.15 × 4.33 × 2.76	
DS-000-0811-1	80	110	85	3.15 × 4.33 × 3.35	
DS-000-0813	80	130	70	3.15 × 5.12 × 2.76	
DS-000-0813-1	80	130	85	3.15 × 5.12 × 3.35	
DS-000-0816-S	80	160	55	3.15 × 6.30 × 2.17	
DS-000-0816	80	160	90	3.15 × 6.30 × 3.54	
DS-000-0818	80	180	70	3.15 × 7.09 × 2.76	
DS-000-0818-1	80	180	85	3.15 × 7.09 × 3.35	
DS-000-0820	80	200	70	3.15 × 7.09 × 2.76	
DS-000-0825	80	250	70	3.15 × 9.84 × 2.76	
DS-000-0825-1	80	250	85	3.15 × 9.84 × 3.35	
DS-000-1010-S	100	100	75	3.93 × 3.93 × 2.95	
DS-000-1010	100	100	100	3.93 × 3.93 × 3.93	
DS-000-1212-S	125	125	75	4.92 × 4.92 × 2.92	
DS-000-1212	125	125	100	4.92 × 4.92 × 3.94	
DS-000-1217	125	175	75	4.92 × 6.89 × 2.92	
DS-000-1217-1	125	175	100	4.92 × 6.89 × 3.94	
DS-000-1417	140	170	95	5.51 × 6.69 × 3.74	
DS-000-1123	110	230	70	4.33 × 9.06 × 2.76	
DS-000-1423	140	230	95	5.51 × 9.06 × 3.74	
DS-000-1515	150	150	100	5.91 × 5.91 × 3.94	
DS-000-1520-S	150	200	75	5.91 × 7.87 × 2.95	
DS-000-1520	150	200	100	5.91 × 7.87 × 3.94	
DS-000-1520-S1	150	200	105	5.91 × 7.87 × 4.13	
DS-000-1520-1	150	200	130	5.91 × 7.87 × 5.12	
DS-000-1520-B	150	200	130	5.91 × 7.87 × 5.12	
DS-000-1520-B1	150	200	160	5.91 × 7.87 × 6.30	
DS-000-1525	150	250	100	5.91 × 9.84 × 3.94	
DS-000-1525-1	150	250	130	5.91 × 9.84 × 5.12	
DS-000-1525-B	150	250	130	5.91 × 9.84 × 5.12	
DS-000-1525-B1	150	250	160	5.91 × 9.84 × 6.30	
DS-000-1717	175	175	75	6.89 × 6.89 × 2.92	
DS-000-1717-1	175	175	100	6.89 × 6.89 × 3.94	
DS-000-1717-2	175	175	125	6.89 × 6.89 × 4.92	
DS-000-1725	175	250	75	6.89 × 9.84 × 2.92	
DS-000-1725-1	175	250	100	6.89 × 9.84 × 3.94	
DS-000-2020-S	200	200	95	7.87 × 7.87 × 3.74	
DS-000-2020	200	200	130	7.87 × 7.87 × 5.12	
DS-000-2020-B	200	200	160	7.87 × 7.87 × 6.30	
DS-000-0811(A1)(D1)	80	110	70	3.15 × 4.33 × 2.76	
DS-000-0813(D2)	80	130	70	3.15 × 5.12 × 4.33	
DS-000-0818(D3)	80	180	70	3.15 × 7.09 × 3.35	
DS-000-0825(D4)	80	250	70	3.15 × 9.84 × 3.35	
DS-000-0811-1(B1)(C1)	80	110	85	3.15 × 4.33 × 3.35	
DS-000-0813-1(A2)(B3)(C2)	80	130	85	3.15 × 5.12 × 3.35	
DS-000-0818-1(A3)(B4)(C3)	80	180	85	3.15 × 7.09 × 3.35	
DS-000-0825-1(A4)(B4)(C4)	80	250	85	3.15 × 9.84 × 3.35	

※Products such as A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C3, C4, D1, D2, D3 and D4 from above products list are products processed only on the cover.

■OOO mark of product at the above product list is to express a material.

■Materials : AG, AT, PG, PT, PCG, PCT

■Please refer to Material Composition Diagram by Products on Page 13.

A1 Ø30.5mm 1Hole	/ A2 Ø30.5mm 2Hole	/ A3 Ø30.5mm 3Hole	/ A4 Ø30.5mm 4Hole
B1 Ø22.5mm 1Hole	/ B2 Ø22.5mm 2Hole	/ B3 Ø22.5mm 3Hole	/ B4 Ø22.5mm 4Hole
C1 Ø25.0mm 1Hole	/ C2 Ø25.0mm 2Hole	/ C3 Ø25.0mm 3Hole	/ C4 Ø25.0mm 4Hole
D1 Ø25.0mm 1Hole	/ D2 Ø25.0mm 2Hole	/ D3 Ø25.0mm 3Hole	/ D4 Ø25.0mm 4Hole



Switch Box

SUS draw latch Type for Opening/Closing- IP67

Switch Box



- ▶It weighs a fourth as much as steel box and is convenient for carrying or working. No corrosion and excellent insulation.
- ▶It is an excellent product that passed a thorough waterproof, dustproof impact-resistant test.
- ▶It is useful for the usages such as DIN-Rail and button box, small terminal, signal device, measuring equipment, communication connection box, etc and is easy to mount.

Materials & Composition Table

A G	•Material:ABS •Color: Gray	A T	•Material:Cover(PC), Body(ABS) •Color: Cover(Clear), Body(Gray)
P G	•Material:AC Flammability •Color: Gray	P T	•Material:Cover(PC), Body(AC) •Color: Cover(Clear), Body(Gray)
P C G	•Material:POLYESTER •Color: Gray	P C T	•Material:Cover(PC), Body(POLYESTER) •Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene	P C:PolyCarbonate
Polyester : PBT+PC	AC:ABS(30%)+PC(70%)

▶SWITCH BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. SWITCH BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-000H-0712	75	125	75	2.92 × 4.92 × 2.92	
DS-000H-0712-1	75	125	100	2.92 × 4.92 × 3.94	
DS-000H-0712-2	75	125	125	2.92 × 4.92 × 4.92	
DS-000H-0811-S	80	110	45	3.15 × 4.33 × 1.77	
DS-000H-0811-S1	80	110	60	3.15 × 4.33 × 2.36	
DS-000H-0811	80	110	70	3.15 × 4.33 × 2.76	
DS-000H-0811-1	80	110	85	3.15 × 4.33 × 3.35	
DS-000H-0813	80	130	70	3.15 × 5.12 × 2.76	
DS-000H-0813-1	80	130	85	3.15 × 5.12 × 3.35	
DS-000H-0816-S	80	160	55	3.15 × 6.30 × 2.17	
DS-000H-0816	80	160	90	3.15 × 6.30 × 3.54	
DS-000H-0818	80	180	70	3.15 × 7.09 × 2.76	
DS-000H-0818-1	80	180	85	3.15 × 7.09 × 3.35	
DS-000H-0820	80	200	70	3.15 × 7.09 × 2.76	
DS-000H-0825	80	250	70	3.15 × 9.84 × 2.76	
DS-000H-0825-1	80	250	85	3.15 × 9.84 × 3.35	
DS-000H-1010-S	100	100	75	3.93 × 3.93 × 2.95	
DS-000H-1010	100	100	100	3.93 × 3.93 × 3.93	
DS-000H-1212-S	125	125	75	4.92 × 4.92 × 2.92	
DS-000H-1212	125	125	100	4.92 × 4.92 × 3.94	
DS-000H-1217	125	175	75	4.92 × 6.89 × 2.92	
DS-000H-1217-1	125	175	100	4.92 × 6.89 × 3.94	
DS-000H-1417	140	170	95	5.51 × 6.69 × 3.74	
DS-000H-1123	110	230	70	4.33 × 9.06 × 2.76	
DS-000H-1423	140	230	95	5.51 × 9.06 × 3.74	
DS-000H-1515	150	150	100	5.91 × 5.91 × 3.94	
DS-000H-1520-S	150	200	75	5.91 × 7.87 × 2.95	
DS-000H-1520	150	200	100	5.91 × 7.87 × 3.94	
DS-000H-1520-S1	150	200	105	5.91 × 7.87 × 4.13	
DS-000H-1520-1	150	200	130	5.91 × 7.87 × 5.12	
DS-000H-1520-B	150	200	130	5.91 × 7.87 × 5.12	
DS-000H-1520-B1	150	200	160	5.91 × 7.87 × 6.30	
DS-000H-1525	150	250	100	5.91 × 9.84 × 3.94	
DS-000H-1525-1	150	250	130	5.91 × 9.84 × 5.12	
DS-000H-1525-B	150	250	130	5.91 × 9.84 × 5.12	
DS-000H-1525-B1	150	250	160	5.91 × 9.84 × 6.30	
DS-000H-1717	175	175	75	6.89 × 6.89 × 2.92	
DS-000H-1717-1	175	175	100	6.89 × 6.89 × 3.94	
DS-000H-1717-2	175	175	125	6.89 × 6.89 × 4.92	
DS-000H-1725	175	250	75	6.89 × 9.84 × 2.92	
DS-000H-1725-1	175	250	100	6.89 × 9.84 × 3.94	
DS-000H-2020-S	200	200	95	7.87 × 7.87 × 3.74	
DS-000H-2020	200	200	130	7.87 × 7.87 × 5.12	
DS-000H-2020-B	200	200	160	7.87 × 7.87 × 6.30	

■ 000 mark of product at the above product list is to express a material.

■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

Switch Box

Assembly Drawing

- The Equipment is possible to all the products of HI BOX.



■DS-AT-1520-1

- Aluminum panel can be fitted
- Screw type is a basic specification

Accessories



Bracket



DS-PB-40/30



DS-VH-40



DS-VH-50



DS-VH-60/DS-VH-80
(75×75mm) (100×100mm)



DSK-40



DS-PK-20



DSK-20



DSK-20M



DSM-45



DSH-35



DSB-25 ⊕⊖



DSC-10

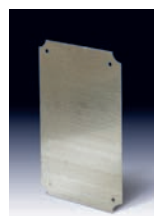
■Please refer to Accessories List on Page 58~62.

Switch Box Drawing Information

Division Model	H1	H2	H3	H4	W1	W2	W3	D1	D2
DS-0506-S	67	58	52	38	53	42	37	25	10
DS-0506	65	59	52	40	50	44	37	35	20
DS-0808	82	76	70	55	79	74	68	45	15
DS-0712	125	120	107	90	75	70	57	52	25
DS-0712-1	125	120	107	90	75	70	57	52	50
DS-0712-2	125	120	107	90	75	70	57	52	75
DS-0811-S	110	104	92	80	80	74	62	25	20
DS-0811	110	104	92	80	80	74	62	50	20
DS-0811-1	110	104	92	80	80	74	62	50	35
DS-0813	130	124	112	100	80	74	62	50	20
DS-0813-1	130	124	112	100	80	74	62	50	35
DS-0816-S	162	156	145	136	82	75	66	40	15
DS-0816	162	156	145	136	82	75	66	75	15
DS-0818	180	174	162	150	80	74	62	50	20
DS-0818-1	180	174	162	150	80	74	62	50	35
DS-0820	180	174	162	150	80	74	62	50	35
DS-0825	250	244	232	220	80	74	62	50	20
DS-0825-1	250	244	232	220	80	74	62	50	35
DS-1010	100	91	80	68	100	91	80	80	20
DS-1010-S	100	91	80	68	100	91	80	55	20
DS-1212-S	125	117	105	70	125	117	105	55	20
DS-1212	125	117	105	70	125	117	105	80	20
DS-1217	175	167	157	140	127	121	109	49	25
DS-1217-1	175	167	157	140	127	121	109	49	50
DS-1417	170	162	152	130	140	132	122	75	20
DS-1123	230	222	205	182	110	103	91	57	55
DS-1423	230	220	212	190	140	132	122	60	75
DS-1515	150	139,5	131	109,5	150	139,5	131	80	20
DS-1520-S	200	190	182	160	150	139	132	52	25
DS-1520	200	190	182	160	150	139	132	80	20
DS-1520-1	200	190	182	160	150	139	132	80	50
DS-1520-B	200	190	182	160	150	139	132	110	20
DS-1520-B1	200	190	182	160	150	139	132	110	50
DS-1525	250	240	232	210	150	140	132	80	20
DS-1525-1	250	240	232	210	150	140	132	80	50
DS-1525-B	250	240	232	210	150	140	132	110	20
DS-1525-B1	250	240	232	210	150	140	132	110	50
DS-1717	175	170	157	140	175	170	157	52	25
DS-1717-1	175	170	157	140	175	170	157	52	50
DS-1717-2	175	170	157	140	175	170	157	52	75
DS-1725	250	245	232	211	175	170	157	52	25
DS-1725-1	250	245	232	211	175	170	157	52	50
DS-2020-S	200	193	182	120	200	193	182	75	20
DS-2020	200	193	182	120	200	193	182	110	20
DS-2020-B	201	193,5	182	120	201	193,5	182	140	20

Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-0506	55 × 40 × 1,6	2,17 × 1,57 × 0,06	DS-0506
DS-000-0712(-1,-2)	106 × 60 × 1,6	4,17 × 2,36 × 0,06	DS-0712
DS-000-0808	71 × 65 × 1,6	2,79 × 2,56 × 0,06	DS-0808
DS-000-0811-S	93 × 63 × 1,6	3,66 × 2,48 × 0,06	DS-0811-S
DS-000-0811(-1)	96,5 × 68 × 1,6	3,80 × 2,68 × 0,06	DS-0811
DS-000-0813(-1)	116 × 68 × 1,6	4,57 × 2,68 × 0,06	DS-0813
DS-000-0816(-S)	150 × 65 × 1,6	5,91 × 2,56 × 0,06	DS-0816
DS-000-0818(-1)	165,5 × 68 × 1,6	6,52 × 2,68 × 0,06	DS-0818
DS-000-0820	165,5 × 68 × 1,6	6,52 × 2,68 × 0,06	DS-0820
DS-000-0825(-1)	235 × 68 × 1,6	9,25 × 2,68 × 0,06	DS-0825
DS-000-1010(-S)	88 × 88 × 1,6	3,46 × 3,46 × 0,06	DS-1010
DS-000-1212(-S)	99 × 99 × 1,6	3,90 × 3,90 × 0,06	DS-1212
DS-000-1217(-1)	157 × 99 × 1,6	6,18 × 3,90 × 0,06	DS-1217
DS-000-1417	156 × 124 × 1,6	6,14 × 4,88 × 0,06	DS-1417
DS-000-1423	212 × 122 × 1,6	8,35 × 4,80 × 0,06	DS-1423
DS-000-1520(-1,-S,B,B1)	186 × 136 × 1,6	7,32 × 5,35 × 0,06	DS-1520
DS-000-1525(-1,B,B1)	235,5 × 136 × 1,6	9,27 × 5,35 × 0,06	DS-1525
DS-000-1717(-1,-2)	161 × 161 × 1,6	6,34 × 6,34 × 0,06	DS-1717
DS-000-1725(-1)	235 × 165 × 1,6	9,25 × 6,50 × 0,06	DS-1725
DS-000-2020(-S,-B)	187 × 187 × 1,6	7,36 × 7,36 × 0,06	DS-2020

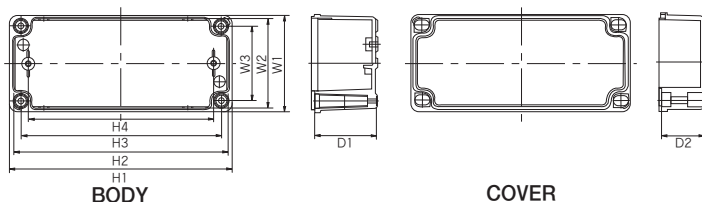


Plastic Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-0811(-S,-1)	96,5 × 68 × 3,5	3,80 × 2,68 × 0,14	DS-0811 P/L
DS-000-0813(-1)	116 × 68 × 3,5	4,57 × 2,68 × 0,14	DS-0813 P/L
DS-000-0818(-1)	165,5 × 68 × 3,5	6,52 × 2,68 × 0,14	DS-0818 P/L
DS-000-0825(-1)	235 × 68 × 3,5	9,25 × 2,68 × 0,14	DS-0825 P/L
DS-000-1010(-S)	88 × 88 × 1,6	3,46 × 3,46 × 0,06	DS-1010 P/L
DS-000-1515	124 × 124 × 3,75	4,48 × 4,48 × 0,15	DS-1515 P/L
DS-000-1520(-1,-S,B,B1)	186 × 136 × 3,0	7,32 × 5,35 × 0,12	DS-1520 P/L
DS-000-1525(-1,-B,-B1)	235 × 136 × 3,7	9,25 × 5,35 × 0,15	DS-1525 P/L
DS-000-2020(-S)	187 × 187 × 3,3	7,36 × 7,36 × 0,13	DS-2020 P/L
DS-000-0712(-1,-2)	112 × 57 × 3,9	4,41 × 2,24 × 0,15	DS-0712 P/L
DS-000-1212(-S)	107 × 107 × 4,0	4,21 × 4,21 × 0,16	DS-1212 P/L
DS-000-1417	149 × 119 × 4,0	5,87 × 4,68 × 0,16	DS-1417 P/L
DS-000-1423	211 × 121 × 4,0	8,31 × 4,76 × 0,16	DS-1423 P/L
DS-000-1717(-1,-2)	159 × 159 × 4,0	6,26 × 6,26 × 0,16	DS-1717 P/L
DS-000-1725(-1)	230 × 157 × 4,0	9,05 × 6,18 × 0,16	DS-1725 P/L
DS-000-1217(-1)	107 × 119 × 4,0	4,21 × 4,68 × 0,16	DS-1217 P/L

Dimension

(Allowable error: ± 1mm)



BODY

COVER



- It is the largest capacity of electric Box and the selection range is made more expansive, and it is New technology of the plastic Box.
- Big Box is selected and supported by The Packing Development Institute of Industrial Design.
- Through the use of special waterproof and dustproof tests, contained parts are protected well.
- The use is simple as big type Sensor, Relay Box, Sleeve, Power Water Tool Box, Junction Box and Control Box.

Materials & Composition Table



- Material:AC Flammability
- Color: Gray



- Material:POLYESTER
- Color: Gray

■Please refer to Material Composition Diagram by Products on Page 13.

Big BOX Product List

SIZE(mm)			INDOOR/OUTDOOR	OUTDOOR
W	H	D	AC(PC/ABS)	POLYESTER(PBT/PC)
600	800	280	Gray Cover	Gray Cover
			DS-PG-07	DS-PCG-07

- Temperature Range
- Short time : -40℃~ +90℃
- Continuous : -40℃~ +85℃



- Material : AC Flammability(PC/ABS)
- Color : Gray

- Temperature Range
- Short time : -40℃~ +100℃
- Continuous : -40℃~ +75℃



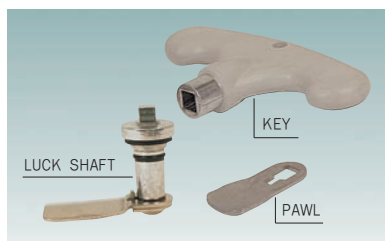
- Material : Polyester(PBT/PC)
- Color : Gray



Steel Mounting Plate

Product	mm W×H×D	inch W×H×D	MODEL
DS-000-07	720×520×1,6	28,35×20,47×0,06	DS-07

Big Box Drawing Information



■ LOCKING KIT

Through using special locking kit waterproof and dustproof are perfect. (IP-66, IK-08)
(Locking kit is available by option with 3~5kit)



■ GUIDE PINS

The guide pins are used to fix accurately the position of a cover and stop shake.

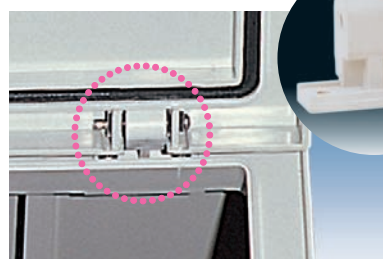


■ CLIPS

The clips are used to fix aluminium panel and adjusted with height.



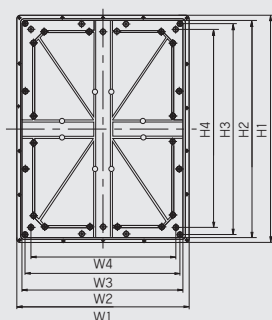
■ ROTATE FULL 180 DEGREES



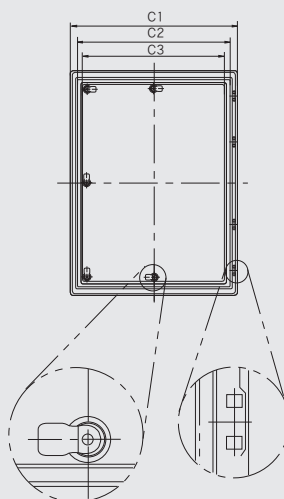
■ HINGES

The hinge is linked with the plastic material of high intensity elasticity and the intensity is excellent.

Dimension (Allowable error: ± 1mm)



BODY



COVER



Model	Division	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2	C1	C2	C3
PG - 07		810	777	760	704	607	574	556	517	257	25	590	541	516
PCG - 07		810	777	760	704	607	574	556	517	257	25	590	541	516

Accessories

Product	Bracket
DS-000-07	DS-B-60

■ Accessories



Die cast Box

Aluminum Box – IP67



►Aluminium box is not corroded even though it is used in the air/under water.

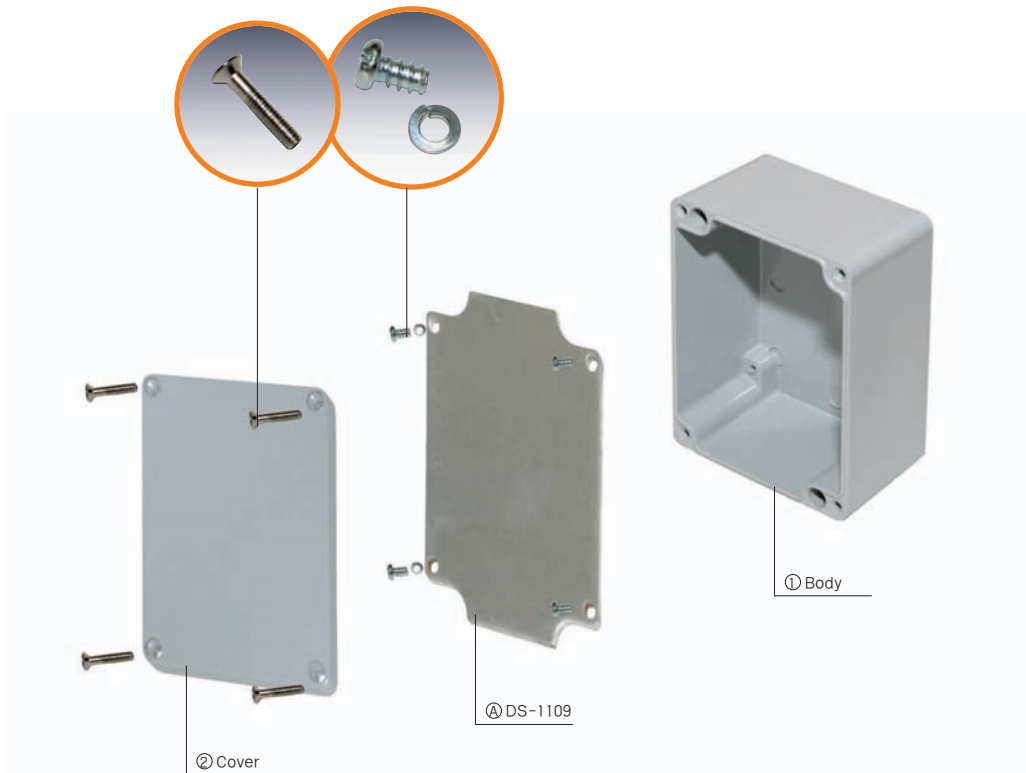
►It is an ideal box for the usages such as body of electric fabricated products or electric equipment that is very sensitive under th commercial/industrial environment conditions.

►It has an excellent effect on water-resistance and dust-resistance because it has a gasket that can prevent the entry of dust or moisture.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
DS-AL-0903	90	35	30	3.54×1.38×1.18	
DS-AL-0606	65	60	35	2.56×2.36×1.38	
DS-AL-0808 <i>NEW</i>	80	75	57	3.15×2.95×2.24	
DS-AL-1610 <i>NEW</i>	160	100	80	6.30×3.94×3.15	
DS-AL-1106	115	65	30	4.53×2.56×1.18	
DS-AL-1106-1	115	65	55	4.53×2.56×2.17	
DS-AL-1109	115	90	55	4.53×3.54×2.17	
DS-AL-1212	120	120	100	4.73×4.73×3.94	
DS-AL-1511	150	110	75	5.91×4.33×2.95	
DS-AL-1616	160	160	100	6.30×6.30×3.94	
DS-AL-1808	180	80	60	7.09×3.15×2.36	
DS-AL-2508	250	80	60	9.84×3.15×2.36	
DS-AL-1712	170	120	55	6.69×4.73×2.17	
DS-AL-2212 <i>NEW</i>	220	120	80	8.66×4.73×3.15	
DS-AL-2215	225	150	55	8.86×5.91×2.17	
DS-AL-2215-1	225	150	80	8.86×5.91×3.15	
DS-AL-2616-S <i>NEW</i>	260	160	70	10.24×6.30×2.76	
DS-AL-2616	260	160	90	10.24×6.30×3.54	

Die cast Box

Assembly Drawing



■ DS-AL-1109

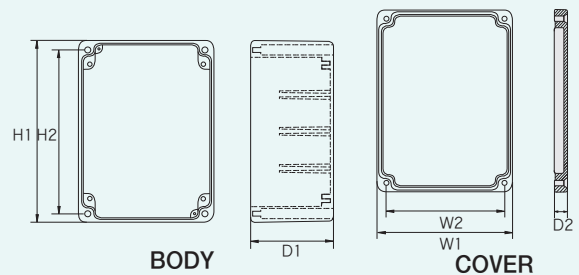
- ① ② - Basic specification
- ④ - Optional specification

Die cast Box

DIE CAST SCALE

Model	Division	H1	H2	W1	W2	D1	D2
DS-AL-0903		89.7	80.8	35.7	27	26.4	4.9
DS-AL-0606		64.0	52.0	57.7	46.1	31.4	5.0
DS-AL-0808		80	68	75	63	42.5	15
DS-AL-1610		160	146	100	86	60	20
DS-AL-1106		115.4	103.2	65.5	53.4	26.4	5.0
DS-AL-1106-1		115.4	103.2	65.5	53.4	51.3	5.0
DS-AL-1109		115.2	103.0	90.0	77.9	51.3	5.0
DS-AL-1212		120.7	101.6	120.7	101.6	81.3	20.3
DS-AL-1511		158.8	139.7	158.8	139.7	81.3	20.3
DS-AL-1616		148.0	133.3	108.0	93.3	65.0	10.0
DS-AL-0818		177	164.5	82	69.5	44	15
DS-AL-0825		252	239.5	82	69.5	44	15
DS-AL-1712		170.9	159.3	120.9	109.2	44.9	10.0
DS-AL-2212		220	204	120	82	60	20
DS-AL-2215		222.6	210.4	146.3	134.1	50.3	5.0
DS-AL-2215-1		222.6	210.4	146.3	134.1	50.3	32.2
DS-AL-2616-S		262	242.6	162	142.6	51.8	20
DS-AL-2616		262	242.6	162	142.6	73.8	20

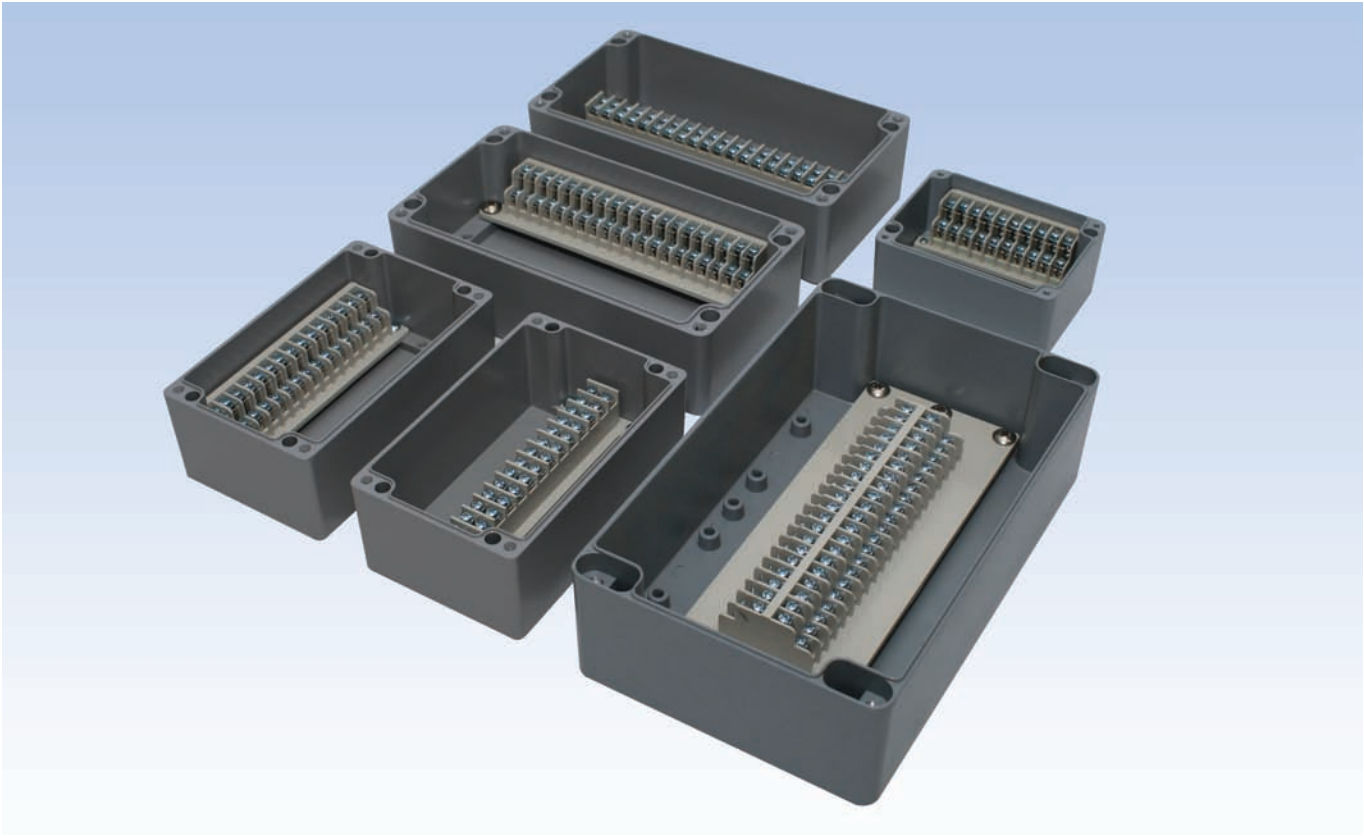
Dimension (Allowable error: ± 1mm)



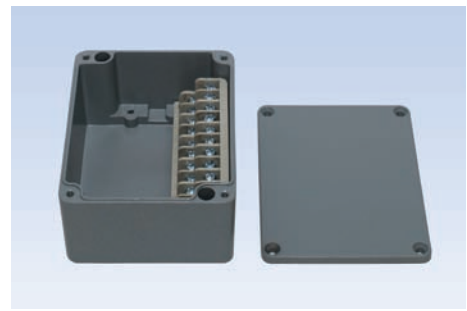
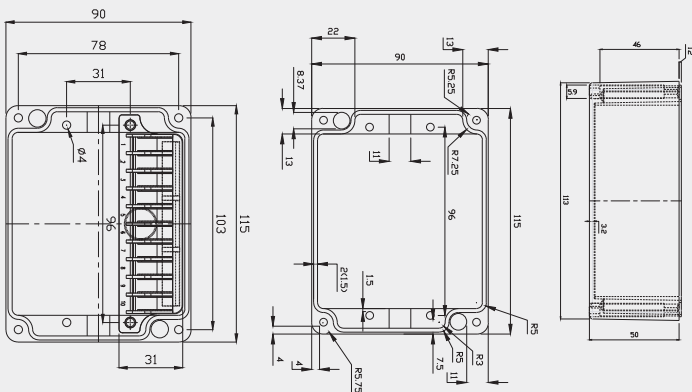
■ Used both as in-door and out-door

- Material : Aluminum Alloy #A380
- Cover Bolt : M4 stainless steel with no magnetism.
- Mounting Panel Bolt & Washer : M3 nickel gilding
- Color : Grey

Aluminium Terminal Block Box

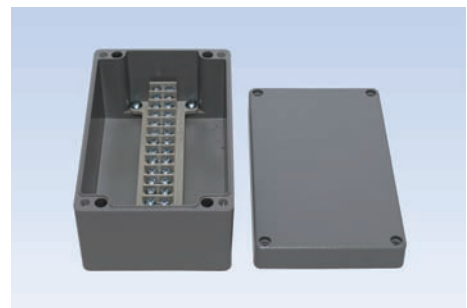
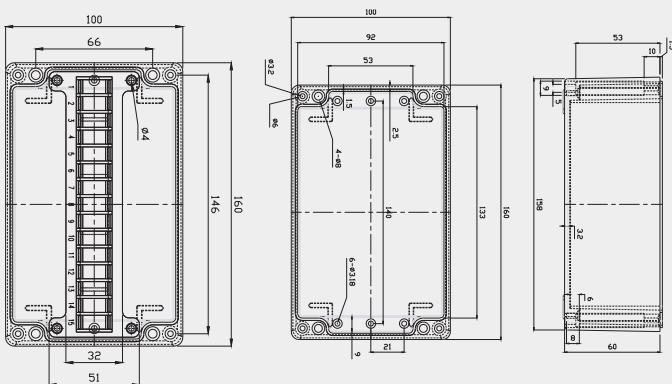


Dimension (Allowable error:± 1mm)



Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-10PT	115×90×55	4.53×3.54×2.17

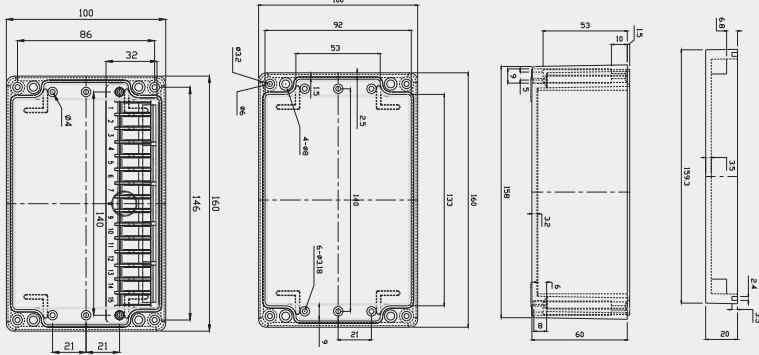
Dimension (Allowable error:± 1mm)



Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-15P	160×100×80	6.30×3.94×3.15

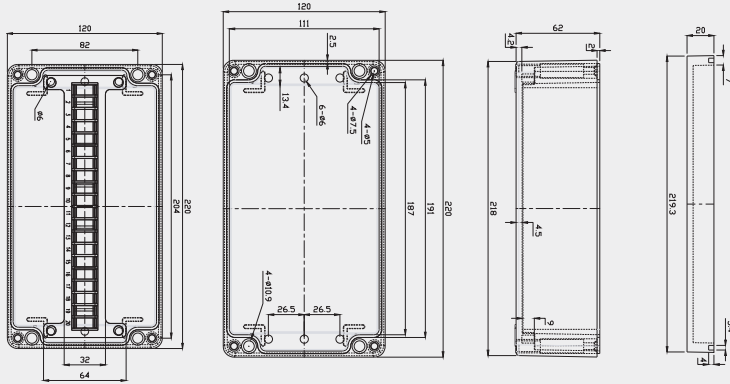
Aluminium Terminal Block Box

Dimension (Allowable error:± 1mm)



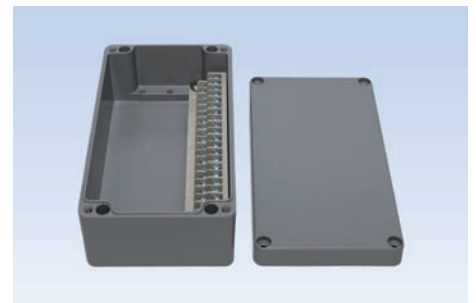
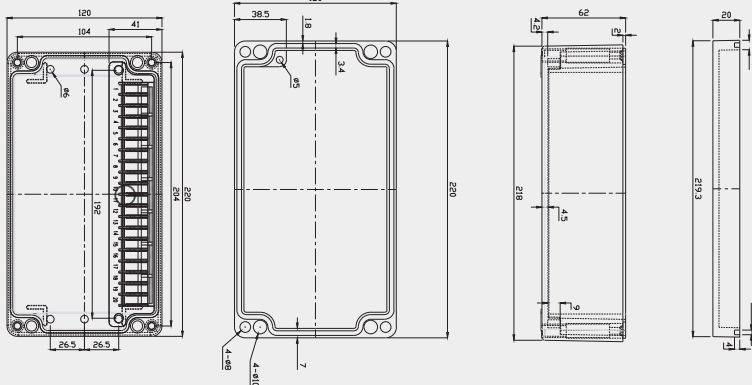
Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-15PT	160×100×80	6.30×3.94×3.15

Dimension (Allowable error:± 1mm)



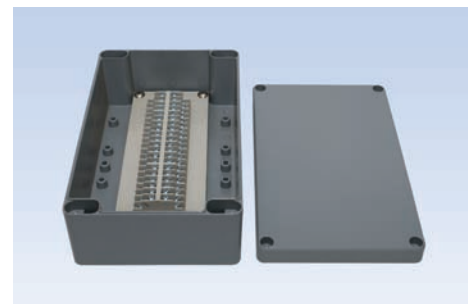
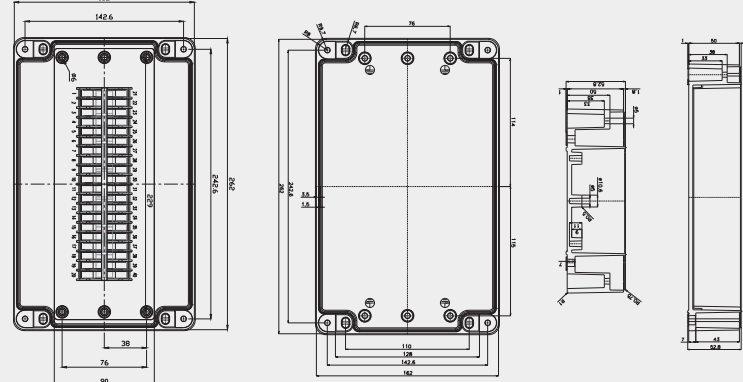
Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-20P	220×120×80	8.66×4.73×3.15

Dimension (Allowable error:± 1mm)



Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-20PT	220×120×80	8.66×4.73×3.15

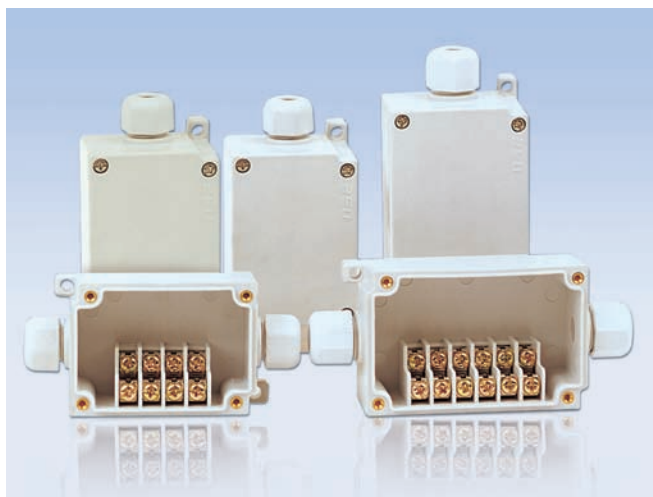
Dimension (Allowable error:± 1mm)



Part Number	Dimensions(mm)	INCH
	W×H×D	
DS-AL-40P	260×160×90	10.24×6.30×3.94

Terminal Block Box

Terminal Type Box – IP67



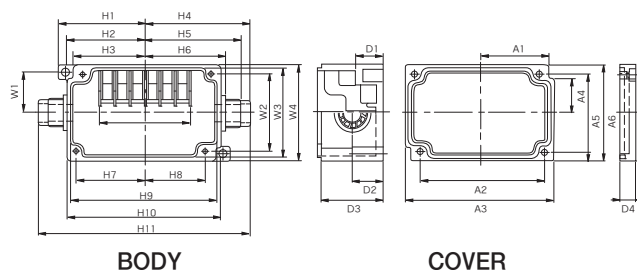
Model	Height×Width×Depth (Unit: mm Including cover)
DS-MTB-4P	70× 50×40
DS-MTB-6P	85× 55×40

■ Indoor/Outdoor use

- Material: Polyester (PBT/PC)
- Color: Gray

※Please refer to Material Information on Page 13.

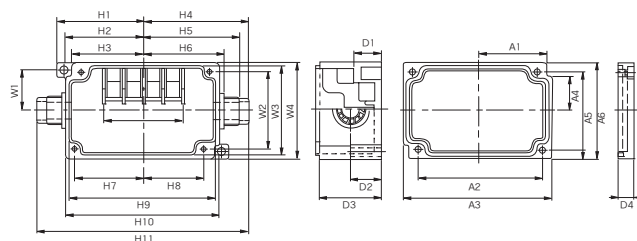
Dimension (Allowable error:± 1mm)



BODY

COVER

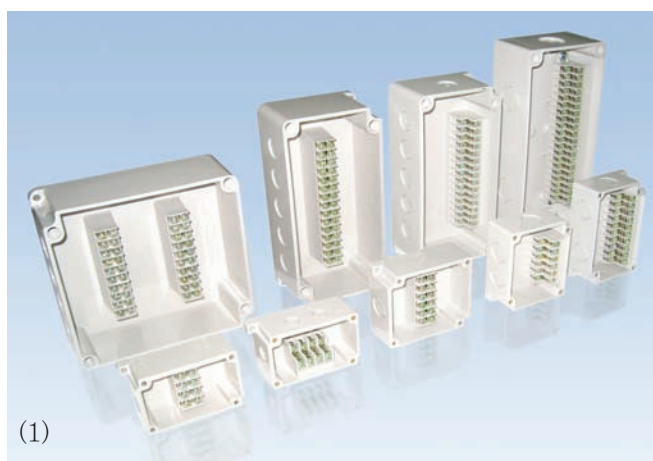
Model	Division	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	W1	W2	W3	W4	D1	D2	D3	A1	A2	A3	A4	A5	A6	D4
DS-MTB-6P		47.5	43.5	39.5	60.5	53.5	44.5	37.5	34.5	81	85	121	23.5	45	51	55	14.5	16	32	39.5	72	85	20.5	45	55	8



BODY

COVER

Model	Division	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	W1	W2	W3	W4	D1	D2	D3	A1	A2	A3	A4	A5	A6	D4
DS-MTB-4P		40	36	32	50	45	37	30	27	66	70	100	21	40	46	50	14.5	16	32	32	57	70	18	40	50	8



(1)

Model	Height×Width×Depth (Unit: mm Including cover)
DS-PG-4P	85 × 55 × 40
DS-PG-6P	90 × 75 × 40
DS-PG-10P	110 × 75 × 40
DS-PG-15P	100 × 200 × 70
DS-PG-20P	170 × 160 × 70
DS-PG-4PT	85 × 55 × 40
DS-PG-6PT	90 × 75 × 40
DS-PG-15PT	100 × 200 × 70
DS-PG-20PT	110 × 230 × 70
DS-PG-40PT	110 × 230 × 70



(2)

Model	Height×Width×Depth (Unit: mm Including cover)
DS-PC-4P	50×70×40
DS-PC-6P	55×85×40

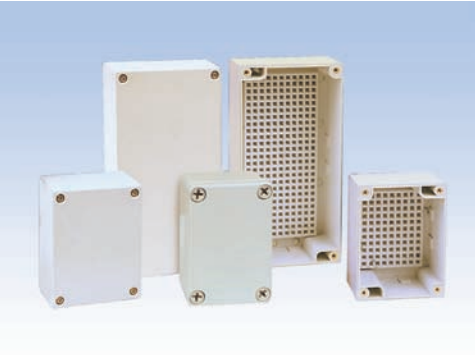
■ Indoor/Outdoor use

- (1) • Material: AC (PC/ABS)
 - Color: Gray
- (2) • Material: Polyester (PBT/PC)
 - Color: Clear

※Please refer to Material Information on Page 13.

Unite Box

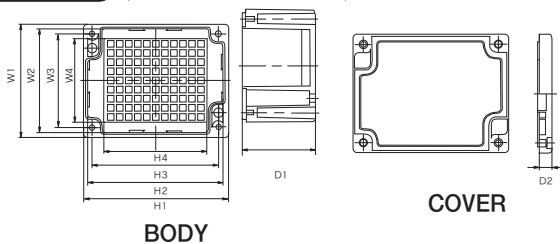
Plastic Panel Integrated Type – IP67



- Mounted with internal plastic panel, it can be used for Terminal block Box, Switches, meters and Control Box etc.
- The delivery-time of our products is promptly made from our own factory with low price and the diverse sizes also the accessories which make the consumer's satisfaction.

Part Number	Dimensions(mm)			INCH
	W	H	D	
PL-000-0609	65	95	56	3.74 × 2.56 × 2.20
PL-000-0709	70	90	50	3.54 × 2.76 × 1.97
PL-000-0816	85	165	50	6.50 × 3.35 × 1.97

Dimension (Allowable error: ± 1mm)



Model	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
PL - 0609	95	89	79	72	65	59	50	42	40	15
PL - 0709	90	84	78	64.5	70	64	58	51.5	43.5	6.5
PL - 0816	165	159	153	139.5	85	79	73	62.5	43.5	6.5

Materials & Composition Table

A G	• Material: ABS • Color: Gray	A T	• Material: Cover(PC), Body(ABS) • Color: Cover(Clear), Body(Gray)
P G	• Material: AC Flammability • Color: Gray	P T	• Material: Cover(PC), Body(AC) • Color: Cover(Clear), Body(Gray)
P C G	• Material: POLYESTER • Color: Gray	P C T	• Material: Cover(PC), Body(POLYESTER) • Color: Cover(Clear), Body(Gray)

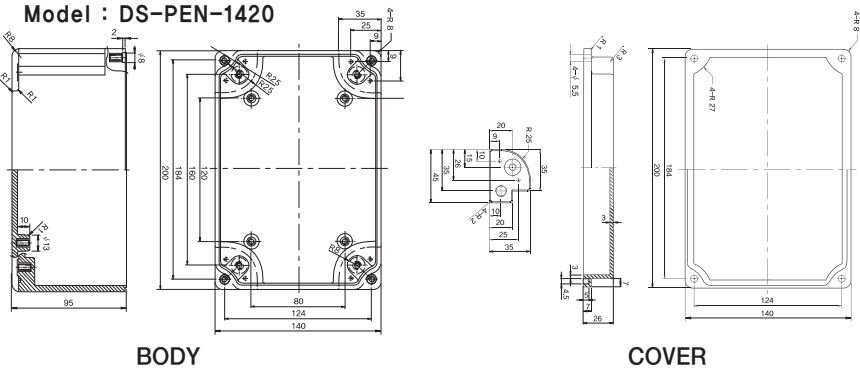
※Please refer to Material Information on Page 13.

Phenol Box / Part Number : DS-PEN-1420

Phenol Box



Dimension (Allowable error: ± 1mm)
Model : DS-PEN-1420



- Thermosetting Resins Box to alternate Die cast Box.
- The revolution in a plastic box world.
- The ideal product under a high temperature and sparkling working conditions.
- The new conceptual plastic box acquired the explosionproof. (Ex e II T4)
- Due to the special parking treatment, waterproof and dustproof. Protection of interior things is perfect.

■ INDOOR · OUTDOOR USE

- Body : PMD-A-300-305
- Cover : LEXAN 943-AR
- Color : Body(Black), Cover(Transparency)

Electronic Box

Plastic Bolt Type for Opening/Closing – IP67



►We have developed a small electronic box that can be used for various purposes such as electronic, communication, control panel, etc.

►It is strong and has a good exterior. In addition, it is easy to work and has an excellent water-resistance and dust-resistance.

►It is convenient for the usages such as terminal box, small terminal, measuring equipment box, terminal, control box, signal device, communication connection box, etc.

Materials & Composition Table

A G •Material:ABS
•Color: Gray

A T •Material:Cover(PC), Body(ABS)
•Color: Cover(Clear), Body(Gray)

P G •Material:AC Flammability
•Color: Gray

P T •Material:Cover(PC), Body(AC)
•Color: Cover(Clear), Body(Gray)

P C G •Material:POLYESTER
•Color: Gray

P C T •Material:Cover(PC), Body(POLYESTER)
•Color: Cover(Clear), Body(Gray)

ABS:Acrylonitrile Butadiene Styrene

P C:PolyCarbonate

Polyester : PBT+PC

AC:ABS(30%)+PC(70%)

►DIE CAST BOX Product has 6 product names as shown above and can be made of any of 4 materials shown above. DIE CAST BOX Product acquired IP67 Grade on each product manufactured by any of 4 materials.

Part Number	Dimensions(mm)			INCH	Others
	W	H	D		
EL-000-1308	80	130	35	3.15 × 5.12 × 1.38	
EL-000-1313	130	130	35	5.12 × 5.12 × 1.38	
EL-000-1318	130	180	35	5.12 × 7.09 × 1.38	
EL-000-1308-B	80	130	60	3.15 × 5.12 × 2.36	
EL-000-1313-B	130	130	60	5.12 × 5.12 × 2.36	
EL-000-1318-B	130	180	60	5.12 × 7.09 × 2.36	

■ 000 mark of product at the above product list is to express a material.

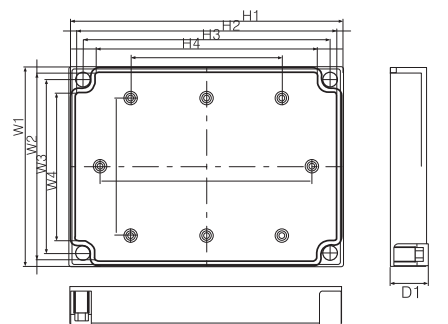
■ Materials : AG, AT, PG, PT, PCG, PCT

■ Please refer to Material Composition Diagram by Products on Page 13.

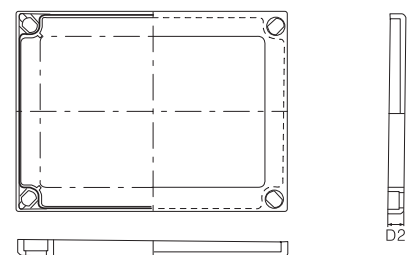
Division Model	H1	H2	H3	H4	W1	W2	W3	W4	D1	D2
EL-1308	132	126	113	95	82	76	63	45	25	10
EL-1313	130	124	113	95	130	124	113	95	25	10
EL-1318	180	172	163	146	130	122	113	96	25	10
EL-1308-B	132	126	113	95	82	76	63	45	50	10
EL-1313-B	130	124	113	95	130	124	113	95	50	10
EL-1318-B	180	172	163	146	130	122	113	96	50	10

Dimension

(Allowable error: ± 1mm)



BODY



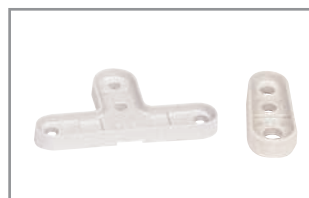
COVER

Accessories

Model	SUS Bracket	Plastic Bracket
EL-000-1308	DS-B-40	DS-PB-30/40
EL-000-1313	DS-B-40	DS-PB-30
EL-000-1318	DS-B-40	DS-PB-30
EL-000-1308-B	DS-B-40	DS-PB-30/40
EL-000-1313-B	DS-B-40	DS-PB-30
EL-000-1318-B	DS-B-40	DS-PB-30



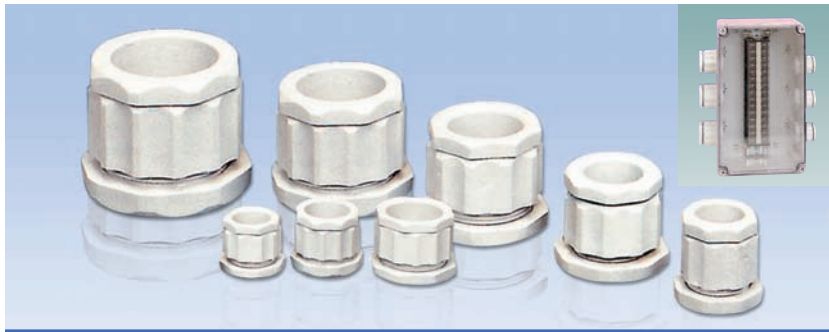
DS-B-40



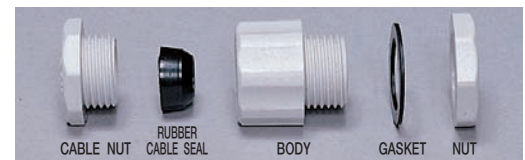
DS-PB-40/30

Cable Gland

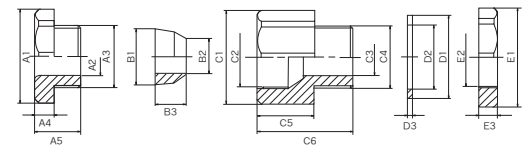
Cable Gland-IP67



- Through the use of special materials from a ABS and Poly carbonate, the product offers graceful appearance and superior strength.
- The product can be replaced with the existing metal cable glands. The product is light in weight, free of corrosion and economical.
- To ensure effective cable support and waterproof, special seal has been filled inside cable gland. (IP 67)
- As JIS standards, the product can be connected to both metal cable pipe and PVC cable pipe.
- Flammability ABS and PC(AC) can also be produced to order.



(Allowable error: $\pm 1\text{mm}$)



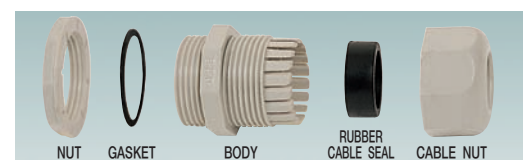
Model	Division	ϕ mm (Cable)	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	C5	C6	D1	D2	D3	E1	E2	E3
DS-D-10	7~9	25	10	16	5	12	15	9	8	25	16	10	16.5	15	25	22	17	1.5	26	15.5	5	
DS-D-12	9~11	25	10	17	5	12	16	10	8	25	16	12	17	15	25	23	18	1.5	26.5	16.5	5	
DS-D-16	11~14	25.5	14.5	21	5	14	18	12	9	25.5	20	15.5	21	18	30	27	21	1.5	33	19	6	
DS-D-22	14~19	33	20	26	6	20	24	17	9	33	25	20	26	20	32	31	26	1.5	38	25	7	
DS-D-28	19~24	43	25	33	6	21	30	22	12	43	31	25	33	22	34	39	33	1.5	50	31	7	
DS-D-36	24~29	52	30	42	7	24	37	27	14	52	40	34	41	25	39	47	41	2	58	40	8	
DS-D-42	29~34	59	35	47	8	28	44	31	14	58	42	40	47	28	44	55	47	2	65	45	10	
DS-D-54	34~44	72	45	59	8	28	56	41	18	72	54	50	59	30	48	67	59	2	75.5	57	10	

Connector

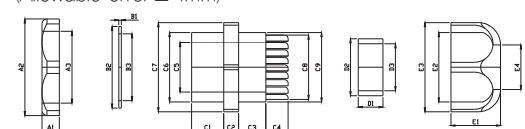
Connector-IP67



- The special material, Nylon is used and a strong point was established at the internal parts protection and the appearance is beautiful and the intensity is excellent on the particular shape.
 - It can be exchanged to old metal cable gland and it is light and economical as the price is low.
 - Both of the waterproof and dustproof (IP 67 Grade) are assured the quality.
 - Production for white/black color with European PG standard.
- * Material: Polyamid



(Allowable error: $\pm 1\text{mm}$)



Division	Model	φmm (Cable)	A1	A2	A3	B1	B2	B3	C1	C2	C3	C4	C5	C6	C7	C8	C9	D1	D2	D3	E1	E2	E3	E4
DS-PG-7	3~7	4.5	18	12	1.5	16	12	11	5	8	5.5	7	12	16	11	12	5	8	6	14	12	16	7	
DS-PG-9	4~8	5.5	23	16	1	19.5	13.5	11	5	7	5	9	15	20.5	13	15	5	11	9	13	16	22	9	
DS-PG-11	5~10	7.5	26	19	1.5	23	18	15	5	9.5	7	12	18	22.5	16	17	7	13	9	15.5	17	23	10	
DS-PG-13.5	6~11	6	28	20.5	1.5	25	21	12	5	10.5	8	13.5	20	25.5	18	20	7	15	12	17	20.5	27	11.5	
DS-PG-16	9~14	6	32	23	1.5	28	22	15	6	12	9	15	22.5	28	20.5	22.5	7	17	14	19	23	29	14	
DS-PG-21	14~18	7	39	29	1	33	27	13	6	11	9	20	28	36	26	28	9	23	19	20	29	36	18	
DS-PG-25	18~21	7	43.5	33	2	38	33	15	7	15	10	25	32	40	30	32	9	27	23	23	33	41	20	
DS-PG-29	18~25	7.5	50	36	2	40	36	13.5	7.5	15	13	29	36	44	37	35	11	30	26	26	38	48	26	
DS-PG-36	22~32	8.5	65	47	2	53	47	15.5	8.5	17.5	18	38.5	46	56.5	45	47	15	40	36	33	48	60	32	

Soft Connector / Cap

Soft Connector / Cap



- It can be replaced with old metal cable gland and it is light and economical price.
 - Both of the waterproof and dustproof are assured the quality.
 - White/black/gray color are available.
- * Material: EPDM, CR-VO(Flammability), SILICON(Strong in heat)



■ Soft Connector ■ Soft Cap

Soft Connector (SPG-00mm)		
Product's name	Cable tolerance : ϕ	Working for a hole : ϕ
SPG-3mm	3~5	12
SPG-5mm	5~7	16
SPG-7mm	7~10	20
SPG-9.5mm	10~14.5	23
SPG-13.5mm	14~20	32
SPG-18.5mm	20~26	40
SPG-23.5mm	26~35	50
SPG-27.5mm	30~45	60

Soft Cap (SC-00mm)		
Product's name	Cable tolerance : ϕ	Working for a hole : ϕ
SC-10mm	9.5~12	15.5
SC-12mm	11.5~15	18.5
SC-14mm	14~17	20.5
SC-17mm	16.5~20	22.5
SC-22mm	22~25	28
SC-30mm	30~34	37
SC-37mm	36.5~42	47
SC-49mm	49~56	60
SC-54mm	53.5~63	64
SC-70mm	69.5~78	79

DSE HI BOX

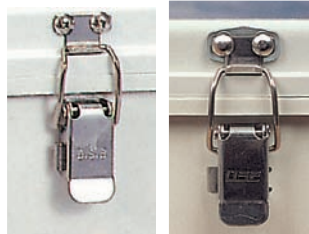
Main Components of DSE HI BOX

■ Draw latches

The draw latches made of stainless steel are double locking safety devices

Model No: DSM-65 DSM-55
DSM-45

Material : SUS304



■ Locking kit

This is a locking kit which prohibits unauthorized persons from using the product.

Model No: DSK-40, 20, 20M,
PK-20, DSM-65K

Material: SUS304, EPDM,
PLASTIC



All the items of HI BOX can be applied.

■ Bracket

These brackets are used to fix boxes on the walls.

Model No: DS-B-60, 50, 40

Material : SUS304

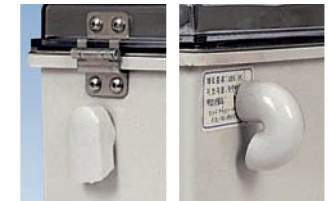


■ Ventilator

Used to equalize internal and external temperature and pressure, and to prevent internal condensation

Model No: DS-VH-40, 50

Material: ABS, AC



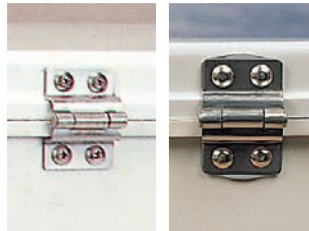
All the items of HI BOX can be applied.

■ Hinge

These hinges are made of stainless steel to ensure strength and durability.

Model No: DSH-50, 35

Material : SUS304



■ Thumb Screw for aluminum panel

Multipurpose Frame and the Aluminum panel is solidly fixed.

Model No: DSL-10

Material: SUS, Brass Alloy

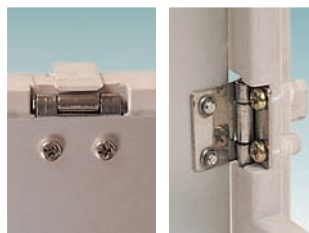


■ Hinge for fitting Aluminum panel

Aluminum panel is connected with the Multipurpose Frame which is simple and solid.

Model No: DSH-25

Material : SUS304



■ Plastic Draw latch

Both of assembling function and locking function is simple and no corrosion, and the intensity is excellent.
Model No: All items of NICE BOX

Material: ABS, AC, Polyester



■ Clip and Clip Hinge

It is possible the installation function of Aluminum panel and height adjusting function.

Model No : DS-CH-50

Material : ABS, AC,
Polyester



■ Plastic bracket

Beautiful appearance and the corrosion-proof and durability is excellent.

Model No: DS-PB-40, 30

Material: ABS, AC, Polyester



■ Clip

At the time of fixing the Aluminum panel's 4-side, the height of 5step(10mm interval) is made possible

Model No: DSC-50

Material: ABS, AC, Polyester



■ Plastic Plate

It is fitted to inside boxes for mounting customer equipment

Material: ABS, AC, Polyester





DSE HI BOX

Accessories



DS-VH-40

- Material : ABS, AC
- Ventilator : All of the products of HIBOX



DS-VH-50

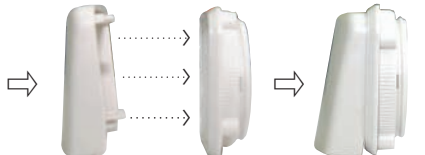
- Material : ABS, AC
- Ventilator : All of the products of HIBOX



CAP



DS-VH-60,80



DS-VH-60

- Material : ABS, AC
- Ventilator : All of the products of HIBOX
- Size : 75×75mm
- Hole : 62.5 Ø

DS-VH-80

- Material : ABS, AC
- Ventilator : All of the products of HIBOX
- Size : 100×100mm
- Hole : 83 Ø



DSK-20

- Material : Steel
- Locking Key : All of the products of HIBOX



DSK-40

- Material : SUS 304 1.2T
- Key Hinge : All of the products of HIBOX



DSH-50

- Material : SUS 304 1.2T
- Hinge : Control, H Type Box



DSH-35

- Material : SUS 304 1.2T
- Hinge : Control, H Type Box



DSM-45

- Material : Stainless steel
- Draw Latch : SWITCH BOX (The type of 80mm and less)



DSM-65

- Material : SUS 304 1.2T
- Draw Latch : Control, H Type Box

NEW ITEM



DSM-65K

- Material : SUS 304 1.2T
- Draw Latch : Control, H Type Box

DSE HI BOX



■ DSM-55

- Material : SUS 304 1.2T
- Draw Latch : Control, H Type Box



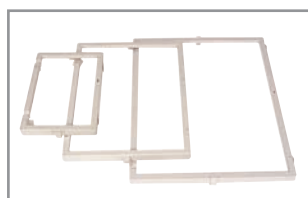
■ DS-B-40, 50, 60

- Material : SUS 304 1.2T
- Bracket : All of the products of HI BOX



■ DSH-25

- Material : SUS 304 1.2T
- Hinge : Swingframe panel mounting



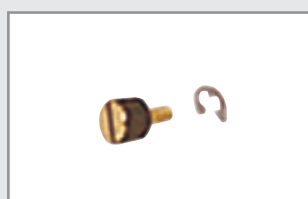
■ DSF-012, 1929, 2838 etc.

- Material : ABS, AC
- Multipurpose Frame : Control, Terminal, Nice Box



■ DS-PB-40/30

- Material : ABS, AC
- Plastic Brackets : Switch Box, NICE Box



■ DSL-10

- Material : SUS, Brass Alloy
- Locking equipment for the Swingframe panel mounting



■ DS-PD-1929, 2939

- Material : Polyster
- Swingframe Panel



■ DSK-20M(Cap for DSK-20)

- Material : EPDM
- Function : Free from dust and water
- Color : White, Black



■ DS-C-50

- Material : ABS, AC
- Clip hinge of mounting Aluminum panel : Control, Terminal, NICE Box



■ DS-CH-50

- Material : ABS, AC
- Clip hinge of mounting Aluminum panel : Control, Terminal, NICE Box



■ DS-C-70

- Material : AC
- Aluminum panel mounting : Control Box(DS-07use)



■ DS-C-65

- Material : ABS
- Clip hinge of mounting Aluminum panel : Smart box



■ DS-C-60

- Material : ABS
- Clip hinge of mounting Aluminum panel : Smart box



■ DS-CH-60

- Material : ABS
- Clip hinge of mounting Aluminum panel : Smart box



- **DSB-70** ⊕⊖
- Material : Nylon Glass
 - Cover Screw : Switch Box



- **DSB-110** ⊕⊖
- Material : Nylon Glass
 - Cover Screw : Terminal Box



- **DSB-25** ⊕⊖
- Material : Nylon Glass
 - Cover Screw : Switch Box



- **DSB-33** ⊕⊖
- Material : Nylon Glass
 - Cover Screw : Switch Box



- **DSC-10**
- Material : ABS, AC
 - Aluminum panel mounting clip : Switch Box



- **DSB-49** ⊕⊖
- Material : Nylon Glass
 - Cover Screw : Terminal Box



- **DSM-22, 11**
- Material : ABS, AC
 - Plug : H Type Box



- **DS-PK-20**
- Material : Nylon
 - Color : Grey, Black



- **EFB-730, EFN-715**
- Material : ABS, AC (Inside insert)
 - Junction Screw and Nut for an extension Frame use.



- **EF-□□-1919, 2828, 2838, 5628, 5638**
- Material : ABS, AC
 - Extension Frame : Terminal Box
 - Depth : 50mm



- **Rubber Plate for H-type Box**
- Material : EPDM
 - Function : Dust and Waterproof



MEMO

Handwriting practice area with 20 horizontal dashed lines.

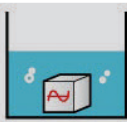
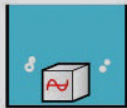
DSE HI BOX Ingress Protection Grade

DSE HI BOX Protection Enclosure IP67, IP68 IK 08~10

Box Ingress Protection Grade : IEC60529

IEC(International Electrotechnical Commission) defines protection structure of electric instruments or protection boxes as follows



First Number		Second Number		IK Code	
Protection Against Solid Objects		Protection Against Liquids		Protection Against Mechanical Impact	
IP	Test	IP	Test	IK	Test
0	 No Protection	0	 No Protection	00	 No Protection
1	 Protected against solid objects up to 50mm	1	 Protected against vertically falling water drops	01-05	 [Impact<1Joule]
2	 Protected against solid objects up to 12.5mm	2	 Protected against vertically falling water drops when enclosure tilted up to 15°	06	 20cm impact 1 joule
3	 Protected against solid objects up to 2.5mm	3	 Protected against spraying water	07	 40cm impact 2 joule
4	 Protected against solid objects up to 1.0mm	4	 Protected against splashing water		
5	 Dust-protected	5	 Protected against water jets	08	 29.5cm impact 5 joule
6	 Dust-tight protected	6	 Protected against powerful water jets	09	 20cm impact 10 joule
		7	 Protected against the effects of immersion between 15cm and 1m during 30min	10	 40cm impact 20 joule
		8	 Protected against the effects of continuous immersion under pressure		

Material Comparison of DSE HI BOX

ITEM \ MATERIAL	ABS	AC	POLYCARBONATE	POLYESTER	NYLON
			(Lexan 943AR/123R)		
Outdoor use	▲	★★★	★★★	★★★★★	●
Indoor use	★★★	★★★★★	★★★★★	★★★★★	★★★★★
High rigidity	★	★★★	★★★★	★★★★	★★★
Light weight	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Impact resistance	★★★	★★★★★	★★★★★	★★★★★	★★★
Alcohols	★★★	N	★★★	★★★	★★★
Ketones	▲	▲	▲	▲	N
Esters	●	●	●	▲	N
Alkalis	★	●	▲	▲	N
Oils(unsaturated aliphatic mixtures)	★★★	●	N	★★★★★	N
Waxes(heavy oils)	★★★	★★★	N	★★★	N
Brake fluid	▲	▲	N	★★★★★	N
Hot water(over 80℃)	★★★	★★★	N	★★★	N

★★★★★ : Very good (unaffected is its performance with regard to time, temperature and stress)

★★★ : Good (acceptable in normal exposure, but higher temperatures may result in major loss of properties)

● : Fair (only for short exposures at lower temperatures or when loss of mechanical properties is not critical)

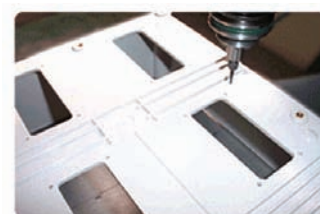
▲ : Poor (not recommended)

N : not tested

※ Please feel free to contact us for recommendations and assistance on specification writing

Working for hole on enclosure by request

DSE HI BOX have started the business named "hole processing working" for the protection of products appearance and the protection of products against the rough handling, at client's desire for various specification based on an extensive knowledge and experience.



Production by order



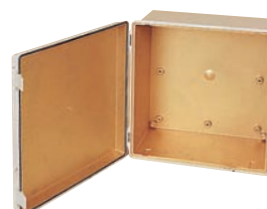
■ SERVICE FOR THE COLOR

We serve for supplying high quality products with the wide color-tone and various colors in accordance with a requirement from the user.



■ SERVICE SILK SCREEN & LETTER EMBOSING

We serve for supplying high quality product with a silk screen and letter embossing by a requirement from the user.



■ SERVICE FOR EMI (ELECTROMAGNETIC INTERFERENCE), RFI (RADIO FREQUENCY INTERFERENCE) PRODUCTS.

...we make what you make, **better**



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