CHINT

CHINT GLOBAL

Final Distribution Boards In EnergiX series by CHINT

ABOUT CHINT

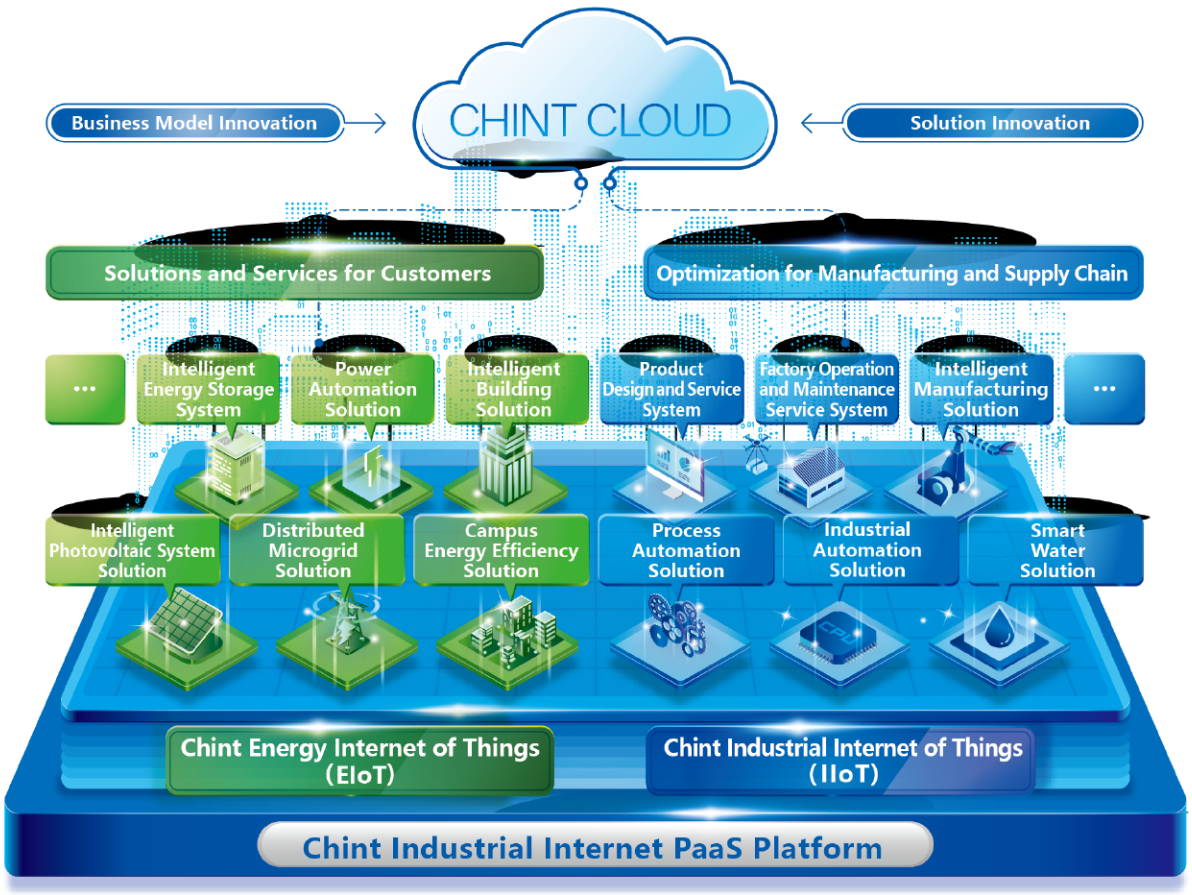
CHINT　A leading global provider of smart energy solutions

Founded in 1984, CHINT is a leading global provider of smart energy solutions. It is actively deploying "4+1" industrial sectors including smart electrics, green energy, industrial control and automation, smart home and incubator, forming an integrated whole industry chain of "power generation, storage, transmission, substation, distribution, sales and consumption". And it boasts an extensive business network across over 140 countries and regions as well as more than 30,000 employees and an annual sales revenue of over USD 11.4 billion. CHINT has been ranking among China' s Top 500 companies for 18 consecutive years. Its subsidiary, CHINT Electrics is the first company in China with low-voltage electrics as its main business getting listed on the A-share market as one of the Top 50 Asian listed companies.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted "One Cloud & Two Nets" as the business strategy. CHINT Cloud fulfills digital application and services in both internal and external as the platform of intelligent technology and data application. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end users, by building a regional smart energy operation ecosphere.

ONE CLOUD & TWO NETS STRATEGY



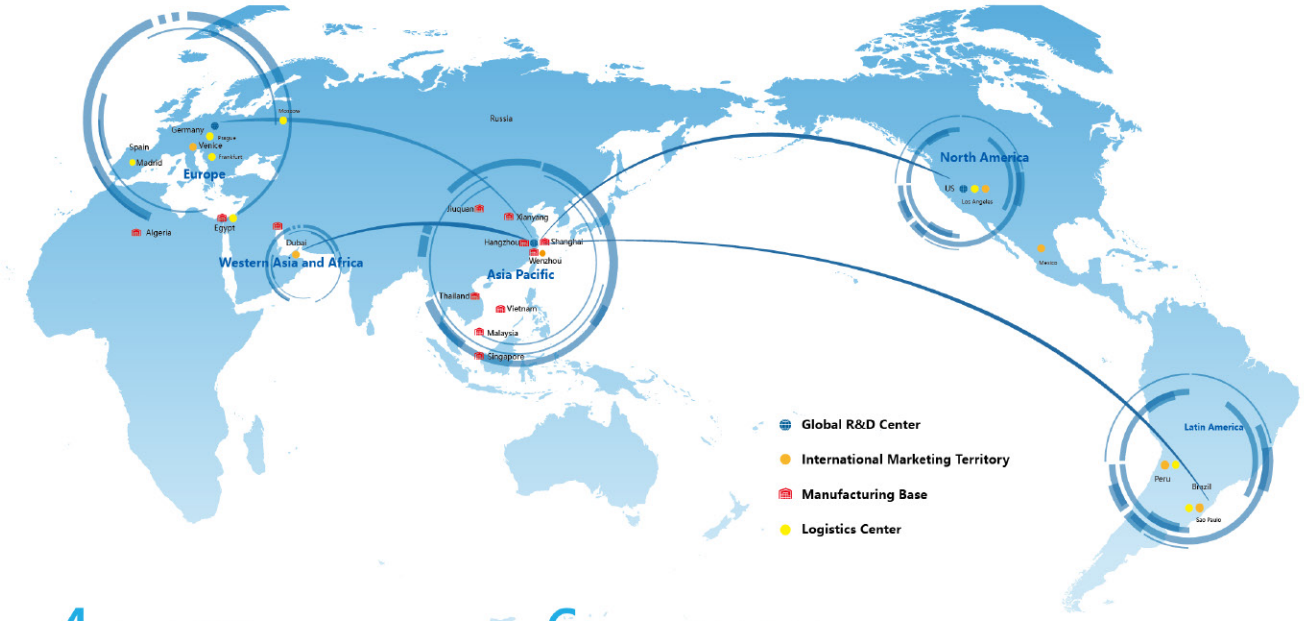
Energy system optimization is an inevitable trend against the background of resource shortage, environmental pollution and climate change – three challenges faced by global energy development. To keep in line with the trend, CHINT actively implements the business strategy of One Cloud & Two Nets, continuously promotes the deep integration of big data, IoT, AI and manufacturing industry in stages to become a platform-based enterprise, and leads the new direction of industry development.

As a medium of smart technology and data applications, CHINT Cloud connects corporate in-house manufacturing with operation and management data, realizing digital applications and services both internally and externally.

As a user-centric multi-energy complementary smart energy system, CHINT EIoT provides a package of energy solutions for governments, industrial & commercial users and end users. Its business includes Smart Energy Efficiency, Smart Power, Smart Home and Smart Clean Energy, etc.

As a smart manufacturing system based on corporate digital transformation, CHINT IIoT constitutes a flexible, high-efficiency and intelligent industrial system. Its business includes Intelligent Manufacturing, Intelligent Industry, Smart Water, Smart Heating, etc.

GLOBAL FOOTPRINT



4 International R&D Centers:
North America, Europe, Asia Pacific, North Africa

6 International Marketing Territories:
Asia Pacific, Western Asia and Africa, EuroPe, Latin America, North America, China

12 Manufacturing Bases:
China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Ji'nan), Thailand, Singapore, Vietnam, Malaysia, Egypt and Algeria

20+ International Logistics Centers

21 Global Subsidiaries

2000+ Sales Companies

GLOBAL CAPACITY LAYOUT

The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxing and Xianyang. Additionally, CHINT has set up factories in Thailand, Egypt, Singapore, Vietnam, Malaysia, etc.


Egypt Production Base


Vietnam Production Base


Malaysia Production Base


Thailand Solar Power Production Base


Singapore Complete Electric Equipment Production Base


Shanghai Production Base


Hangzhou Production Base


Wenzhou Production Base


Jiaxing Production Base


Xianyang Production Base

R&D, QUALITY, SALES, LOGISTICS

By providing reliable products and service for clients, CHINT puts forward the concept "Great Quality." Quality control and upgrade is divided into four systems: scientific research, quality control, marketing service and logistics distribution. These methods and strategies make a comprehensive upgrade to product quality and services. Emphasis on "prevention first, continuous improvement" is the basis of an effective quality inspection system. Leading the management process of "Great Quality" in the production process controls each link of production accurately and realizes the institutional operation of quality improvement.

"Great Quality" is not just a slogan, but a belief rooted in each employee's work. High-quality and accuracy are the basic requirement. Starting from a routine operation by each staff to implementing a high-quality of production and service, CHINT is your most reliable partner.

Service Concept

Sincerely care for customers, quality creates value

Service Purpose

Innovative and progressive, satisfying the customers

Integrated Vertical R&D

By gathering the global industry elites to Provide safe and stable energy-saving green and advanced electric products.

5% At least 5% of revenue is invested in research and development

Great Quality System

Ensuring flaw-free and trouble-free products, the multi-dimensional and multilevel control is conducted through procurement, inspection, quality control and certification.

One-stop Services

CHINT's concept is that it is not difficult to fulfill a high-quality logistics distribution at one time, while it is difficult to stay as accurate and prompt as the first-time. High-efficiency and high-precision accuracy are our requirement.

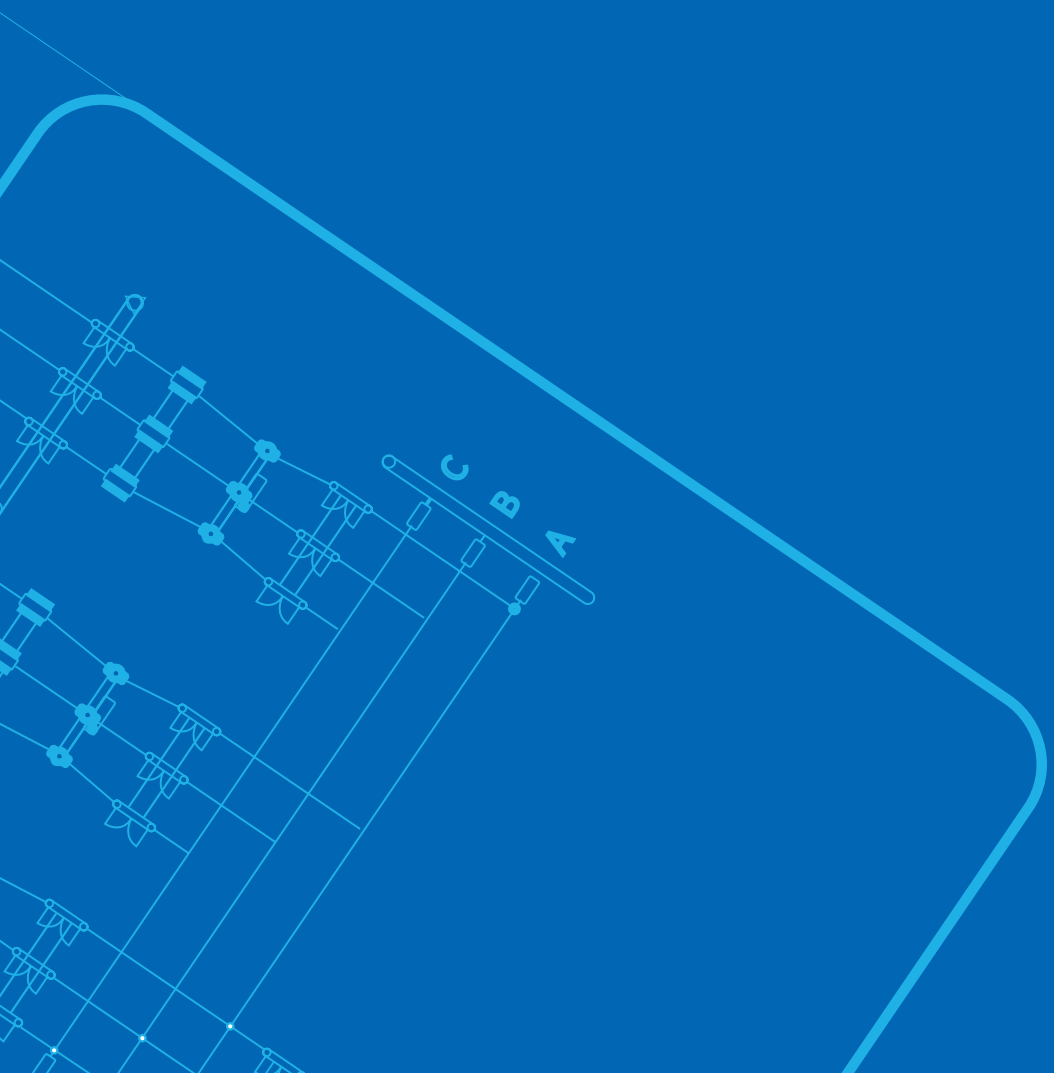
48-Hour Response

Providing end-to-end one-stop services for customers with complaints, business consulting and technical support by solving problems immediately and including any possible prolems in advance.

48 hour Global Services

EnergiX-F

01



EnergiX-F

1.1

General

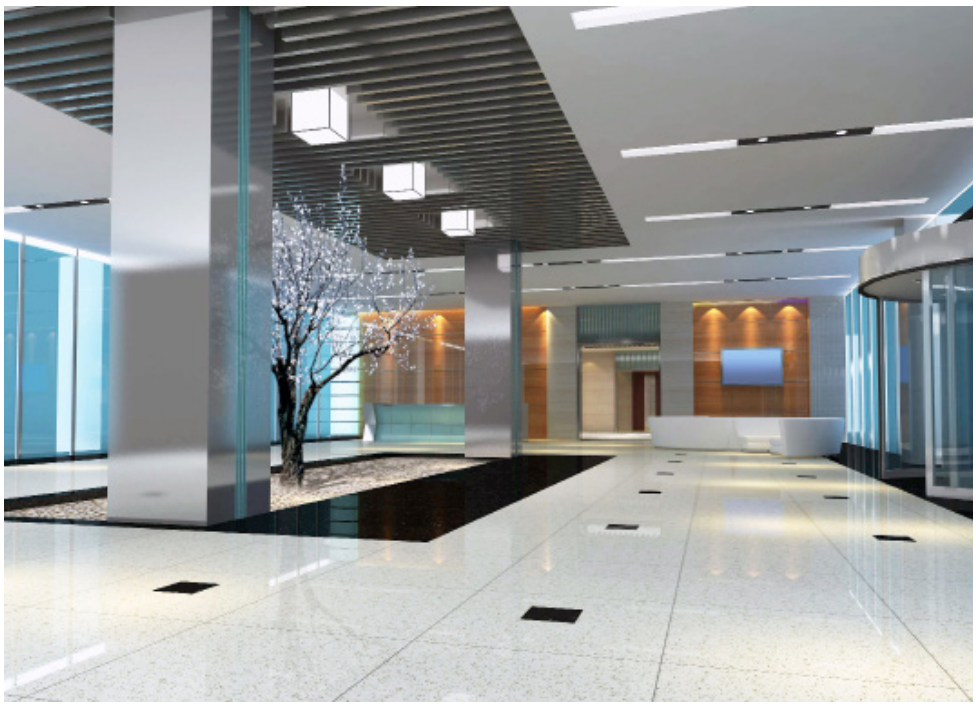
For over 40 years, CHINT has cultivated a rich tradition of safety and innovation, developing electrical products that set the industry standard in technology and meets the demands of commercial buildings, educational establishments, hospitals, government buildings, manufacturing operations and other applications that require safe, reliable and high performance protection of their electrical power final-distribution systems. This expertise has now come full circle with the introduction of a solution for the such application electrical management hub: CHINT (Load Center) EnergiX-F.

Figure 1: EnergiX-F

1.2

Features

- A professional attractive design (round shape door, color trims, etc.)
- Made of high quality electro-galvanized steel sheet
- Polyester Powder Coating RAL-7035
- Designed according to IEC 61439-2
- Certified by notified body of reputation (DEKRA)
- Equipped with completely insulated Tin busbar, direct contact with live parts is prevented
- Enough space is provided to give good visibility and ensure cable insertion is easy and effective
- A comprehensive range including DIN modules, vertical busbar, split DB' s and accessories
- Independent PE bar and independent neutral bar



1.3

Technical parameters

Technical parameters of EnergiX-F

Technical parameters	EnergiX-F
Busbar rated current(A)	Up to 250
Rated short time withstand current (Icw)	12~17 kA/0.25s
Rated insulation voltage (V AC)	500
Rated working voltage (V AC)	110~415
Frequency (Hz)	50/60
IP	IP41
Phases	3
Ways	12/18/24/30/36/42/48
Ambient temperature(℃)	50
Surface treatment of enclosure	Powder coating
Color	RAL7035/Customizable
Cable entry-incoming	Top/Bottom
Cable entry-outgoing	Top/Bottom

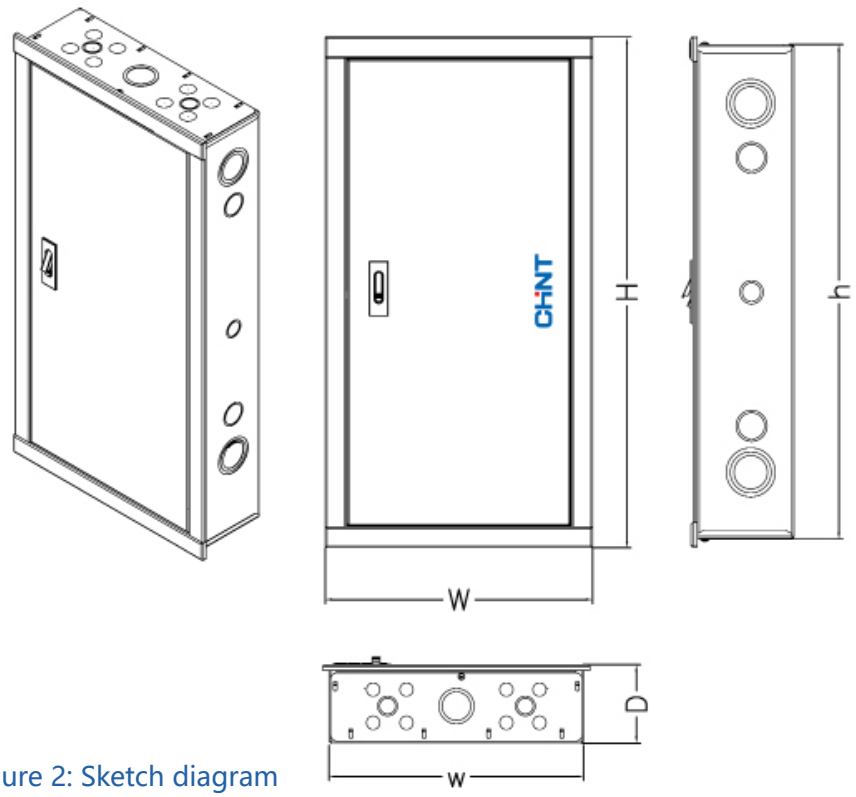


Figure 2: Sketch diagram

1.3

Flush type dimension table of MCB rated 63A

No. Of Ways	Box Dimensions in mm			Cover Dimensions in mm	
	h	w	D	H	W
6 Ways	293	240	98	324	271
9 Ways	347	240	98	378	271

Flush type dimension table of MCCB rated 125A

No. Of Ways	Box Dimensions in mm			Cover Dimensions in mm	
	h	w	D	H	W
12 Ways	552	380	110	582	410
18 Ways	606	380	110	636	410
24 Ways	660	380	110	690	410
30 Ways	714	380	110	744	410
36 Ways	768	380	110	798	410
42 Ways	822	380	110	852	410

Flush type dimension table of MCCB rated 250A

No. Of Ways	Box Dimensions in mm			Cover Dimensions in mm	
	h	w	D	H	W
18 Ways	690	380	125	720	410
24 Ways	744	380	125	774	410
30 Ways	798	380	125	828	410
36 Ways	852	380	125	882	410
42 Ways	906	380	125	936	410
48 Ways	960	380	125	990	410

1.3

Surface type dimension table of MCB rated 63A

No. Of Ways	Box Dimensions in mm			Cover Dimensions in mm	
	h	w	D	H	W
6 Ways	293	240	98	324	261
9 Ways	347	240	98	378	261

Surface type dimension table of MCCB rated 125A

No. Of Ways	Box Dimensions in mm			Cover Dimensions in mm	
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12 Ways	552	380	110	582	400
18 Ways	606	380	110	636	400
24 Ways	660	380	110	690	400
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1.3

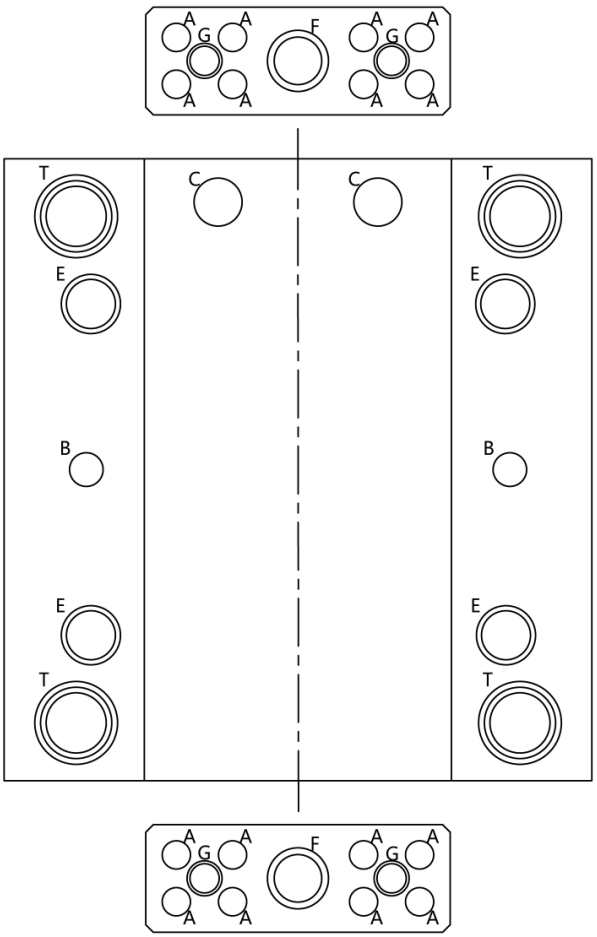

Figure 3: Knockout diagram

Size table of knockout

LEGEND	PARTICULAR	SIZE(mm)
A	Single knockout	Inner ø25
B	Single knockout	Inner ø27
C	Single knockout	Inner ø38
E	Double knockout	Inner ø38, Outer ø46
F	Double knockout	Inner ø50, Outer ø63
G	Double knockout	Inner ø28, Outer ø33
T	Triple knockout	Inner ø44, Middle ø54.5, Outer ø64

1.4

Special products: EnergiX-F (SP)

'SP' refers to 'Split'. Such products are mainly used in residential project for safety, reliable protection system, where the loads are divided as follow, power circuit (sockets, air conditioners, fans, and water pump loads, etc.), and lighting circuit. Additional to that circuit division can be customized as per customer requirements.

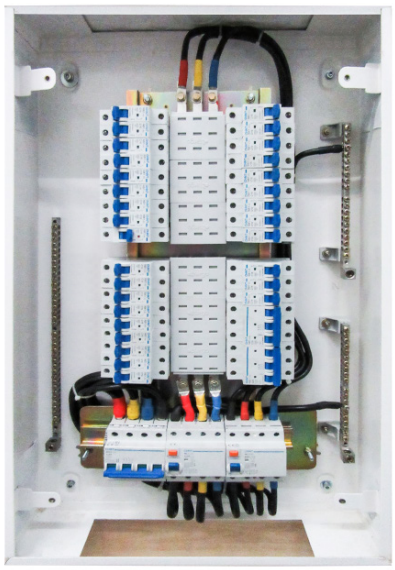

Figure 4: Interior

Figure 5: Exterior

1.4

Technical parameters of EnergiX-F (SP)

Technical parameters	EnergiX-F (SP)
Busbar rated current(A)	Up to 125
Rated short time withstand current (Icw)	10 kA/0.25s
Rated insulation voltage (V AC)	500
Rated working voltage (V AC)	110~415
Frequency (Hz)	50/60
IP	IP41
Phases	3
Ways	6+6,12+6,12+12,18+12,18+18,24+18
Ambient temperature(℃)	50
Surface treatment of enclosure	Powder coating
Color	RAL7035/Customizable
Cable entry-incoming	Top/Bottom
Cable entry-outgoing	Top/Bottom

1.4

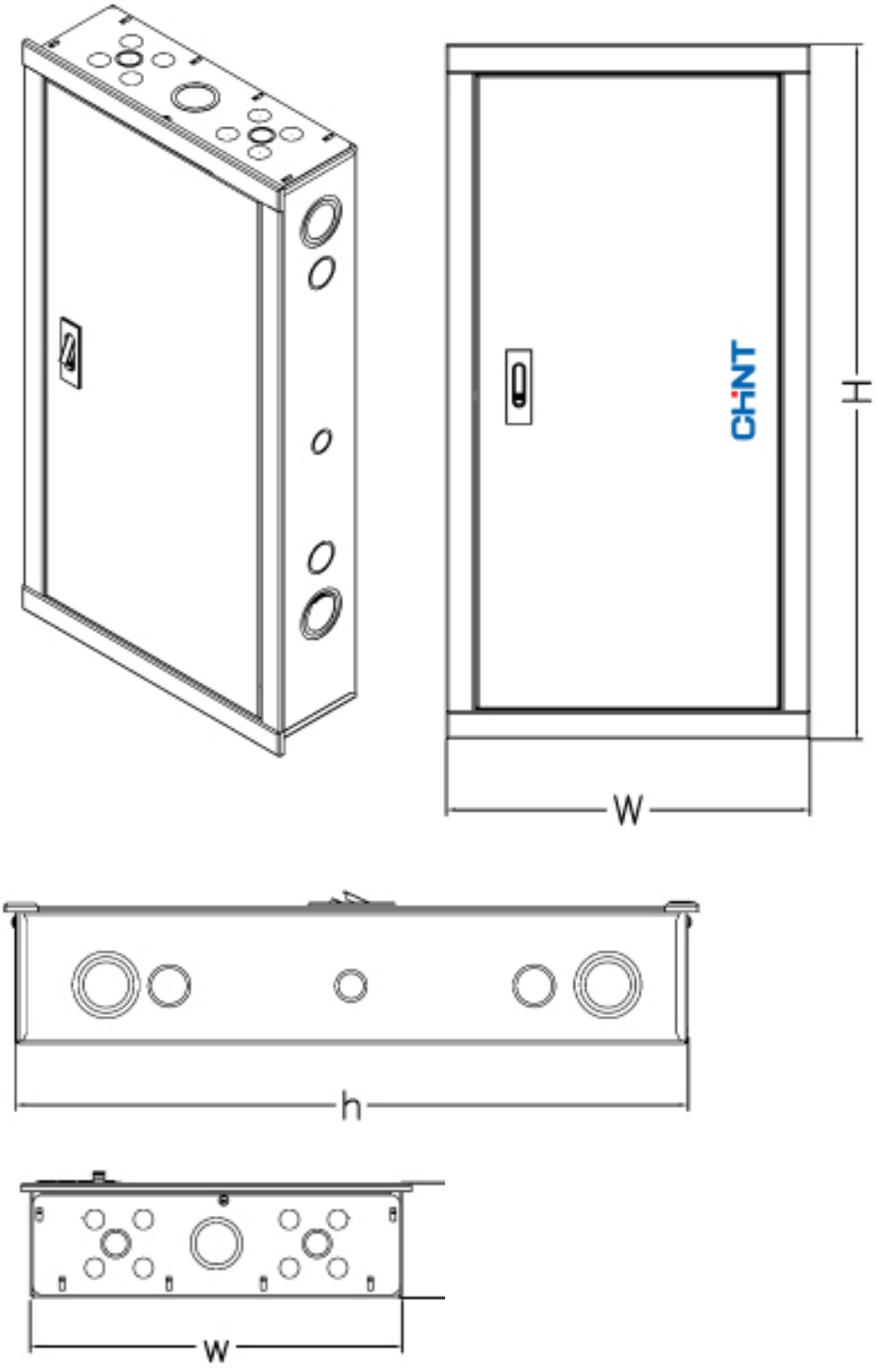

Figure 6: Sketch diagram

1.4

Flush type dimension table of EnergiX-F (SP)

No. Of Ways		Box Dimensions in mm			Cover Dimensions in mm	
1pole	3pole	h	w	D	H	W
6+6	2+2	876	438	105	906	457
12+6	4+2	930	438	105	960	457
12+12	4+4	984	438	105	1014	457
18+12	6+4	1038	438	105	1068	457
18+18	6+6	1092	438	105	1122	457
24+18	8+6	1146	438	105	1176	457

Surface type dimension table of EnergiX-F (SP)

No. Of Ways		Box Dimensions in mm			Cover Dimensions in mm	
1pole	3pole	h	w	D	H	W
6+6	2+2	876	438	105	890	441
12+6	4+2	930	438	105	944	441
12+12	4+4	984	438	105	998	441
18+12	6+4	1038	438	105	1052	441
18+18	6+6	1092	438	105	1106	441
24+18	8+6	1146	438	105	1160	441

1.5

Ordering instructions

Technical parameters of EnergiX-F

1 Incoming	☐ MCB-63	☐ NB1-63(Icn=6kA) ☐ NB1-63H(Icn=10kA) ☐ eB-63(Icn=4.5kA) ☐ NXB-63(Icn=6kA) ☐ NXB-63H(Icn=10kA) Rated current: _____
	☐ MCCB-125	☐ NM8N-125C(Icu=36kA) TMA ☐ NM8N-125S(Icu=50kA)TMA ☐ NM1-125S(Icu=25kA)TMF ☐ DZ158-125(Icn=6kA) Rated current: _____
	☐ RCD	☐ NL1-100 ☐ NB1L-63
	☐ Isolator	☐ NH2-125 ☐ NH4-125
	☐ MCCB-250	☐ NM8N-250C(Icu=36kA) ☐ NM8N-250S(Icu=50kA) ☐ NM1-250S(Icu=25kA) ☐ NM1-250H(Icu=50kA) Rated current:_____
2 Ways	MCB-63	☐ 6 ☐ 9
	MCCB-125	☐ 12 ☐ 18 ☐ 24 ☐ 30 ☐ 36 ☐ 42
	RCD	☐ 6+6 ☐ 12+6 ☐ 12+12 ☐ 18+12 ☐ 18+18 ☐ 24+18
	Isolator	☐ 6+6 ☐ 12+6 ☐ 12+12 ☐ 18+12 ☐ 18+18 ☐ 24+18
	MCCB-250	☐ 18 ☐ 24 ☐ 30 ☐ 36 ☐ 42 ☐ 48
3 The pattern of incoming/ outgoing	incoming: ☐ Bottom ☐ Top Outgoing: ☐ Bottom ☐ Top	
4 IP Degree(Close Door)	☐ IP40 ☐ IP41	

1.5

5 Installation Site	☐ Flush ☐ Surface
6 Color	☐ RAL7035 Light Grey ☐ _____ other

For breaker selection, refer to the corresponding catalogue.
Customized design can be provided upon providing the requirements.

CHINT GLOBAL

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