CHINT

Empower the World

CHINT Power Quality Product Brochure

ABOUT CHINT

CHINT A leading global provider of smart energy solutions

CHINT was established 38 years ago in 1984 and built from the capital of approximately 8,000 US dollars. With our rapid development these years, CHINT has become the world's leading intelligent energy solutions provider for the whole industrial chain with the most complete product ranges. our annual sales revenue exceeded 16.1 billion dollars and total assets of more than 16.2 billion.

Over two decades of global expansion, our business network covers more than 140 countries and regions worldwide in business industries of low-voltage electric, power transmission and distribution, smart technology, energy instruments and meters, green energy, solar and more. CHINT has more than 40,000 employees worldwide, creating more than 200,000 jobs in the industrial chains.

As the market localization progresses steadily, CHINT Global further establishes its supply chain through business integration and industrial upgrade. Optimizing the service system and project financing, providing innovatively integrated technical services for the global energy market, and a flexible working business model.energy, intelligent manufacturing and digital technology, CHINT has adopted “One Cloud & Two Nets” as the business strategy, takes "CHINT Cloud" as the carrier of intelligent technology and data application, and takes the lead in building the energy Internet of things (EIoT) and industrial Internet of things platforms (IIoT).

Focusing on the 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’s pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. By 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.

Main Businesses

- Clean Energy
- Low-voltage Apparatus
- Power Transmission and Distribution
- Instrumentation and Apparatus
- Smart Home
- Intelligent Building
- Intelligent Manufacturing
- Industry Automation
- Smart Heating
- Smart Water
- Home Electrical Apparatus
- Energy Efficiency Management

ABOUT CHINT ELECTRIC

CHINT Electric Co., Ltd is a subsidiary of CHINT Group Corporation. With the wide range of transmission and distribution products, as well as the systematic and professional solution, CHINT Electric has supplied products and EPC services to customers over 140 countries across different industrial sectors, including power utility, renewable energy, oil and gas, metallurgy, railway and so on. Now CHINT Electric Co., Ltd has become one of the main players for Power T&D equipment and EPC services in the world.

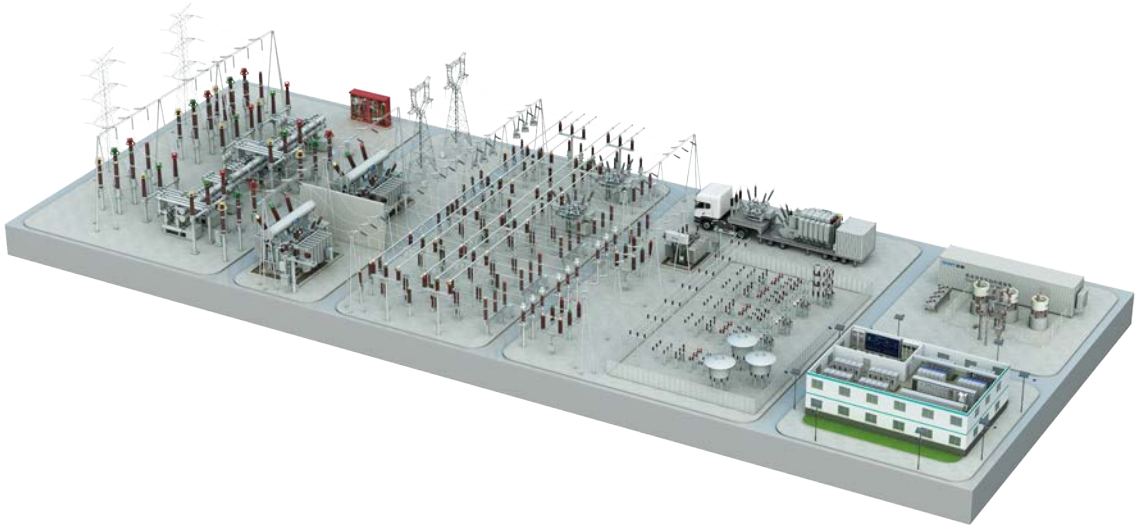
Product Line

The product series is designed solely for the electrical systems with maximum voltage 750kV, covering around 2000 kinds of products within 150 series.

Product Range

- Power Transformer (Up to 750kV)
- SVG Transformer (Up to 35kV)
- Dry-type Transformer (Up to 35kV)
- Reactor (Up to 252kV)
- GIS (Up to 252kV)
- Circuit Breaker and Disconnector (Up to 252kV)
- MV & LV Switchgear Panels
- Surge Arrester and Insulator (Up to 1000kV)
- Current Transformer and Potential Transformer (Up to 500kV)
- Vacuum Circuit Breaker (Up to 12-40.5kV)
- Distribution Automation System
- Cable (Up to 36kV)
- Capacitor (Up to 230kV)

Surge Arrester up to **500kV** | Insulator up to **1000kV** | GIS up to **252kV** | HGIS up to **145kV** | Dry-type Transformer up to **35kV** | MV & LV Switchgear Panels up to **40.5kV** | Power Transformer up to **750kV** | CT & PT up to **245kV** | Circuit Breaker up to **252kV** | SVG up to **35kV** | Cable up to **500kV**



GLOBAL FOOTPRINT

4 National 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

14 Manufacturing Bases: China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Jinan, Yancheng), Thailand, Singapore, Vietnam, Malaysia, Egypt, Algeria and Cambodia

20+ International Logistics Centers

2300+ Sales Companies

GLOBAL CAPACITY LAYOUT

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


Wenzhou Manufacturing Base


Hangzhou Manufacturing Base


Shanghai Manufacturing Base


Jiaxing Manufacturing Base

Xianyang Manufacturing Base


Jinan Cable Manufacturing Base


Yancheng New Energy Manufacturing Base


Wuhan Manufacturing Base

Singapore Complete Electric Equipment Manufacturing Base

Vietnam Manufacturing Base


Malaysia Manufacturing Base


Egypt Manufacturing Base

Algerian Manufacturing Base


Cambodia Manufacturing Base

Thailand Solar Power Manufacturing Base

R&D, QUALITY, SALES, LOGISTICS

Main Advantages

Global R&D System

CHINT has established national R&D centers in North America, Europe, Asia Pacific, North Africa and other areas. We have explored the mode of Industry-University Research Institute Collaboration and Integration together with the universities and research institutions worldwide so as to integrate the global innovation resources and promote corporate R&D innovation and talent cultivation.

24 research institutes

The average annual R&D investment accounts for 4-12% of the revenue

Over 6000 patents in total

Global Certification

The products have passed the standards and specifications in various regions around the world and obtained numerous international certifications

Honors

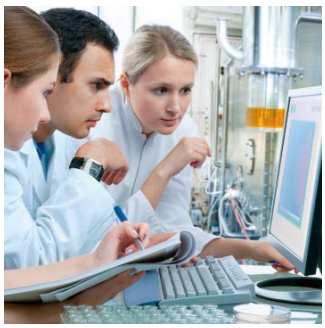
- No. 1 in China's Top 100 Private Enterprises with Social Responsibility in 2021
- No. 92 in 2021 China's Top 500 Private Enterprises
- No. 244 in 2021 Top 500 Chinese Enterprises
- The intelligent manufacturing factory of low-voltage electrical appliances was selected as the national 2021 Intelligent Manufacturing Demonstration Factory

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.

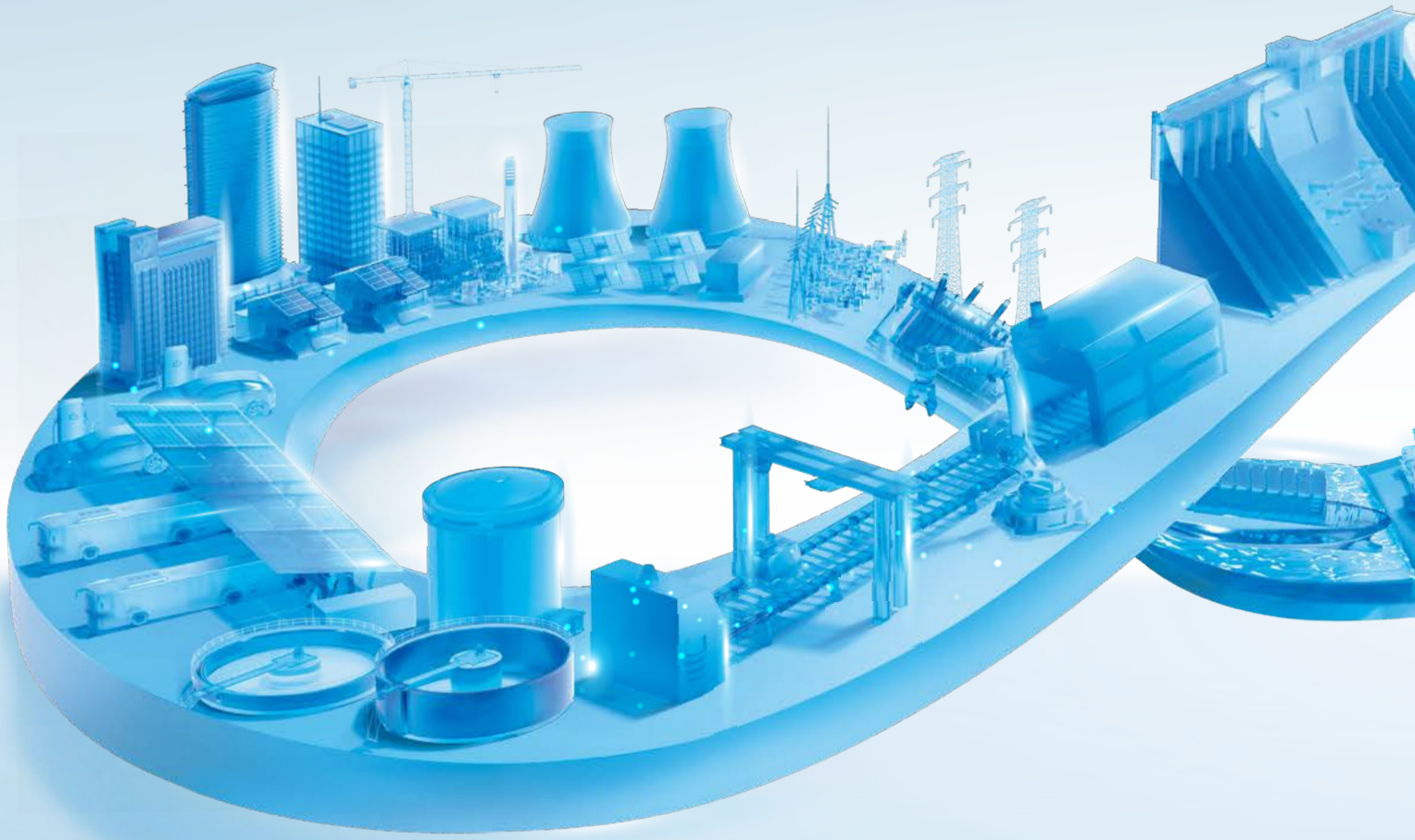
One-stop Services

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 accurat e 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 complains, business consulting and technical support by solving problems immediately and including any possible problems in advance.

48 hour Global Services



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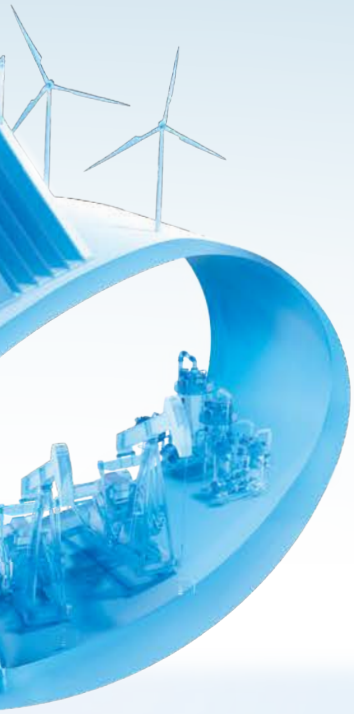
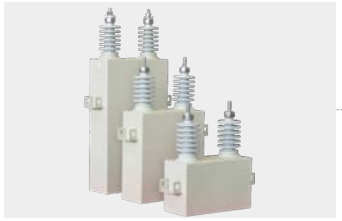


1.0 Product Family Diagram



Capacitor Unit

Shunt Capacitor Bank

MCR/TCR type Dynamic Reactive Power Compensation Installation

BKGKL type Shunt Reactor

Static Var Generator

Passive products

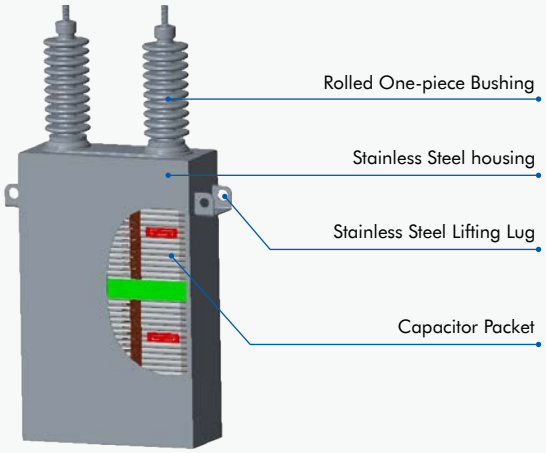
Active products

Power Quality Product Family

2.0 Product Introduction

2.1 Shunt Capacitor Unit

Capacitor Real Diagram



Capacitor 3D Structure Diagram

Product Features

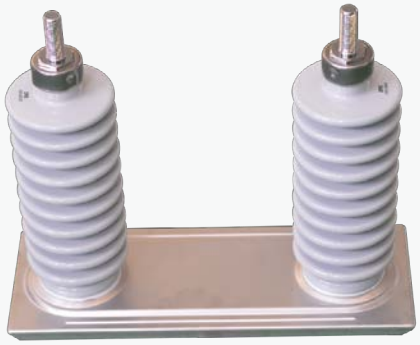
The BAM type high-voltage shunt capacitors produced by CHINT Electric Co., Ltd. are the new generation of all-film high-voltage power capacitors with multiple patents. Their novel and unique **ultrasonic welding technique, internal fuse assembly technique** and other processes enable them to have advanced electrical performance.

Shunt capacitor units are applicable to AC power systems with a power frequency of 50 Hz or 60 Hz and a rated voltage of 1 kV and above. They are mainly used to provide power systems with reactive power, raise the power factor of power grids, lower losses, and improve voltage quality and the efficiency of power supply equipment.

Capacitors are classified into internally fused type and fuseless type based on their different capacity and voltage.

a) Rolled one-piece bushing for solving tightness problem

Casing Torque
≥45N·m
Bending Strength
≥1000N
Tensile Strength
≥1500N



2.0

Product Introduction

b) Stainless steel housing treated with special processes to prevent paint-peeling

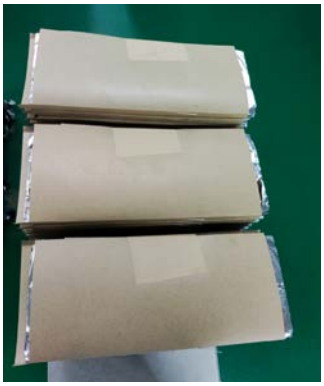
· Formed through bending and seal welding of 1.5 mm thick stainless steel plates, the housing is subject to shot blasting to remove dirt and oxidation layer from the stainless steel surface and roughen the surface, thus allowing the paint to increase its adhesive strength, not fall off easily and be uniform and fine, and making the surface smooth and beautiful.

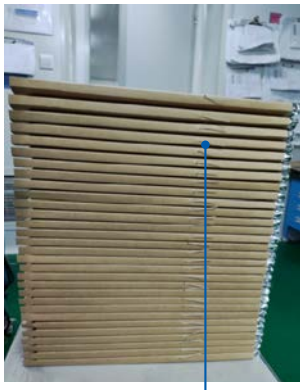
c) Stainless steel lifting lugs with standard mounting dimensions to facilitate the replacement of the product

· Stainless steel lifting lugs have standard mounting dimensions to facilitate the replacement of the product. The bottom of each lifting lug is not painted in order to ensure reliable earthing.

d) Unique internal fuse structure to ensure uniform distribution of electric field inside the capacitor unit

· The capacitor unit is provided with internal fuses, whose unique assembly structure and manufacturing method ensure the uniform distribution of the electric field in the capacitor element and the improvement of electrical performance.





e) Vacuum treatment and low-viscosity insulating oil to improve the electrical performance of the capacitor unit

· Vacuum treatment is conducted by placing the capacitor unit horizontally, and the liquid dielectric is benzyl-toluene with low viscosity and high aromaticity (France C101), which has superior insulation properties to ensure impregnation effect and to improve the product's withstand voltage.

2.0

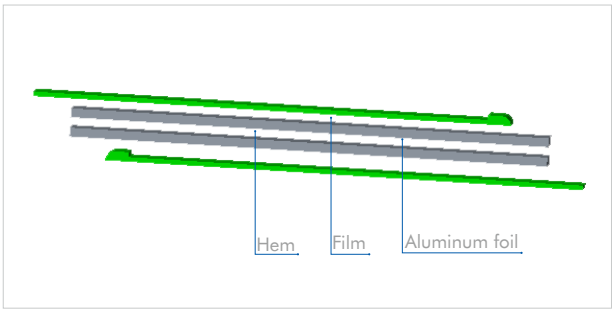
Product Introduction

f) Ultrasonic welding to improve heat dissipation and reduce losses of the capacitor unit

· The ultrasonic welding procedure that does not generate heat is used between elements, so as not to damage the insulating dielectric. The resistivity is close to zero.

g) Aluminum foil hemming structure to improve electric field distribution and reduce partial discharge

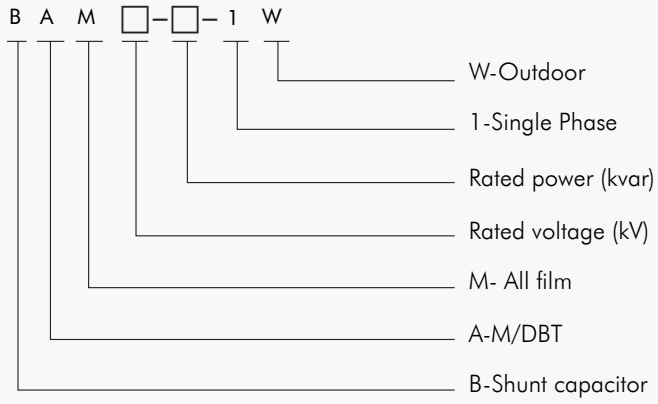
· An element is formed by winding and flattening the aluminum foils (plates) and double-sided roughened polypropylene film (solid dielectric) together. Both ends of the element are hemmed to improve the distribution of the electric field on the plate edges and the partial discharge performance of the product.



2.0 Product Introduction

Product Model and Meaning

- Type Designation



- Standard Adopted

• IEC 60871

- Operating Environmental Conditions

· Place of installation: indoor or outdoor
· Altitude: ≤ 2000 m
· Ambient temperature: -40℃ ~+55℃
· The place of installation and operation shall be free of violent mechanical vibrations, harmful gases and vapors, and electrically conductive or explosive dust
· Relative humidity: monthly average not more than 90% and daily average not more than 95%
· Earthquake intensity: ≤ Intensity VIII

- Electrical Parameters of Capacitor Unit

Rated voltage	Rated frequency	Rated capacity	Capacitance tolerance	Loss tangent tanδ	Lightning impulse voltage
1~24kV	50 Hz / 60 Hz	30 ~ 700 kvar (negotiable for a special model)	-3% ~ +5%	≤ 0.0003	75, 95, 110, 125, 150, 170, 200 kV

Maximum allowable overvoltage	Maximum allowable overcurrent	Self-discharge characteristic of built-in discharge resistor
1.1 Un	1.3 In	dropping from √2Un to below 75V within 10 min of power failure

2.0 Product Introduction

Mechanical Parameters of Capacitor Unit

S/N	Model	Rated Voltage (kV)	Rated Capacitance (μF)	Weight (kg)	Dimensions (mm)			Figure No.
					B	h1	H	
1	BAM3.46-200-1W	3.46	53.2	38	145	120	460	Figure 1
2	BAM3.46-300-1W	3.46	79.81	54	173	220	580	Figure 1
3	BAM3.46-400-1W	3.46	106.41	62	173	220	710	Figure 1
4	BAM3.46-500-1W	3.46	133.01	78	183	220	840	Figure 1
5	BAM3.81-200-1W	3.81	43.86	37	145	120	460	Figure 1
6	BAM3.81-300-1W	3.81	65.82	54	173	220	580	Figure 1
7	BAM3.81-400-1W	3.81	87.76	62	173	220	710	Figure 1
8	BAM3.81-500-1W	3.81	109.7	79	183	220	850	Figure 1
9	BAM4.16-200-1W	4.16	36.81	38	145	120	460	Figure 1
10	BAM4.16-300-1W	4.16	55.21	55	173	220	590	Figure 1
11	BAM4.16-400-1W	4.16	73.61	62	173	220	710	Figure 1
12	BAM4.16-500-1W	4.16	92.01	79	183	220	850	Figure 1
13	BAM4.16-500-1W	4.16	92.14	76	173	220	860	Figure 1
14	BAM3.64-200-1W	3.64	48.07	38	145	120	460	Figure 1
15	BAM3.64-300-1W	3.64	72.11	55	173	220	590	Figure 1
16	BAM6.35-100-1W	6.35	7.90	24	145	120	270	Figure 2
17	BAM6.35-200-1W	6.35	15.79	38	145	120	490	Figure 2
18	BAM6.35-300-1W	6.35	23.7	54	173	220	580	Figure 2
19	BAM6.35-400-1W	6.35	31.59	64	173	220	730	Figure 2
20	BAM6.35-500-1W	6.35	39.48	78	183	220	840	Figure 2
21	BAM6.35-600-1W	6.35	47.39	87	198	220	900	Figure 2
22	BAM6.93-400-1W	6.93	26.54	62	173	220	710	Figure 2
23	BAM6.93-500-1W	6.93	33.17	78	183	220	840	Figure 2
24	BAM6.93-600-1W	6.93	39.79	86	198	220	890	Figure 2
25	BAM8.66-400-1W	8.66	16.99	62	173	220	710	Figure 2
26	BAM8.66-500-1W	8.66	21.23	80	183	220	860	Figure 2
27	BAM8.66-600-1W	8.66	25.48	87	198	220	900	Figure 2
28	BAM7.96-100-1W	7.96	5.03	24	145	120	280	Figure 2
29	BAM7.96-200-1W	7.96	8.38	34	145	120	420	Figure 2
30	BAM7.96-300-1W	7.96	12.57	45	145	220	590	Figure 2
31	BAM7.96-400-1W	7.96	20.11	62	173	220	710	Figure 2
32	BAM7.96-500-1W	7.96	25.13	78	183	220	840	Figure 2
33	BAM13.28-100-1W	13.28	1.81	23	155	120	270	Figure 3
34	BAM13.28-200-1W	13.28	3.01	36	155	120	430	Figure 3
35	BAM13.28-300-1W	13.28	4.51	48	155	220	600	Figure 3
36	BAM13.28-400-1W	13.28	7.22	62	180	220	710	Figure 3
37	BAM13.28-500-1W	13.28	9.03	80	190	220	860	Figure 3
38	BAM13.28-600-1W	13.28	10.83	87	202	220	900	Figure 3
39	BAM13.28-700-1W	13.28	12.64	94	202	220	1000	Figure 3
40	BAM13.86-100-1W	13.86	1.66	23	155	120	270	Figure 3

2.0

Product Introduction

S/N	Model	Rated Voltage (kV)	Rated Capacitance (μF)	Weight (kg)	Dimensions (mm)			Figure No.
					B	h1	H	
41	BAM13.86-200-1W	13.86	3.32	35	155	120	430	Figure 3
42	BAM13.86-300-1W	13.86	4.97	54	180	220	580	Figure 3
43	BAM13.86-400-1W	13.86	6.63	62	180	220	710	Figure 3
44	BAM13.86-500-1W	13.86	8.29	78	190	220	840	Figure 3
45	BAM13.86-600-1W	13.86	9.95	87	202	220	900	Figure 3
46	BAM13.86-700-1W	13.86	11.60	94	202	220	1000	Figure 3
47	BAM24-500-1W	24	2.76	73	180	220	800	Figure 3
48	BAM24-600-1W	24	3.32	94	202	220	1000	Figure 3
49	BAM24-700-1W	24	3.87	101	202	220	1030	Figure 3
50	BAM12-500-1W	12	11.06	80	202	220	850	Figure 3
51	BAM12-700-1W	12	15.48	101	198	220	1030	Figure 3

Note: 1. Dimensions and weights in the table are for reference only, and the actual dimensions and weights shall be subject to the order
2. Due to the limitation of space, only some models are listed in the table, and other models of capacitors can be customized according to the requirements
3. Filter capacitors need to be customized based on engineering parameters
4. The detailed parameter data shall be subject to the parameters confirmed in a specific project
5. Capacitors with a rated voltage of 12 kV and below are available with a single bushing or double bushings
6. Capacitors with a rated voltage of above 12 kV are generally available with a single bushing
7. Each capacitor may be provided with 2, 3 or 4 lifting lugs depending on requirements

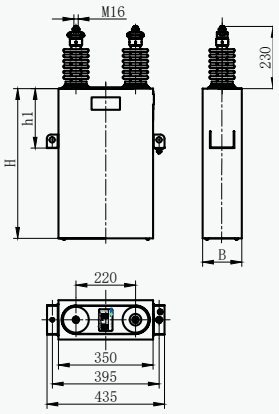


Figure 1

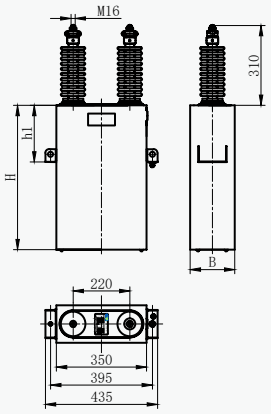


Figure 2

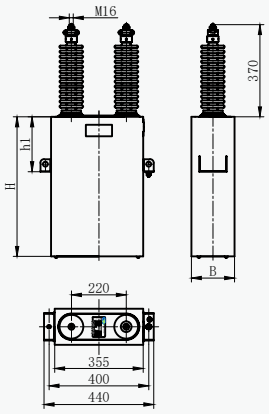


Figure 3

3.0

Quality Assurance

3. 1 Testing Capability

The test station of the reactive power compensation full-load testing center is capable of conducting the factory and type tests of capacitor units, and the voltage class of the test specimen can reach up to 230 kV. In addition, the test station can perform tests on a single capacitor with a maximum capacity of 1,000 kvar, and the annual tested capacity can reach 30,000,000 kvar.

The test station covers a floor area of 300 square meters, owns more than 30 sets of advanced equipment/instruments and regularly calibrates all measuring instruments/equipment (submits them for inspection). The perfectness ratio of instruments/equipment reaches 100%. The test station is divided into a test hall, a test operation room and an oil laboratory.

35 kV ~ 550 kV voltage testing center

SVG factory test

SVG overall test

3.0

Quality Assurance

Test operation room

X-ray detection of SVG circuit board

3.2 Clean workshop and equipment capability

Class 1000 element winding workshop

Fully-automatic element winding machine

Ultrasonic welding procedure with independent patented technology

Class 10000 core assembly workshop

3.0

Quality Assurance

Fully-automatic fuse processing machine

CNC core press

CNC cable paper cutter

Two-stage vacuum oil filter

Vacuum impregnation equipment

SMT automatic mounting and welding production line for SVG

3.0 Quality Assurance

3.3 Type test report and certificate


intertek

ASTA TYPE CERTIFICATE

VERIFICATION OF TEST


产品认证证书

电能（北京）认证中心有限公司

Power (Beijing) Certification Centre Co.,Ltd.


检验（试验）报告

Test Report


检验（试验）报告

Test Report


检验（试验）报告

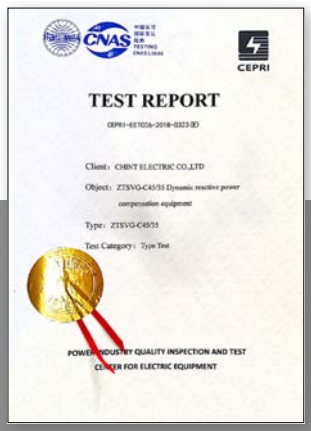
Test Report


检验（试验）报告

Test Report


检验（试验）报告

Test Report

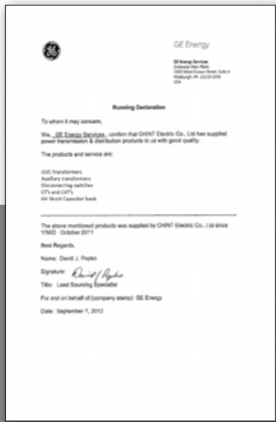

TEST REPORT


检验(试验)报告

Test Report

3.0 Quality Assurance

Operation Report


GE Energy

Running Declaration

To whom it may concern,

We, GE Energy Services, confirm that CHINT Electric Co., Ltd has supplied power transmission & distribution products to us with good quality.

The products and service are:

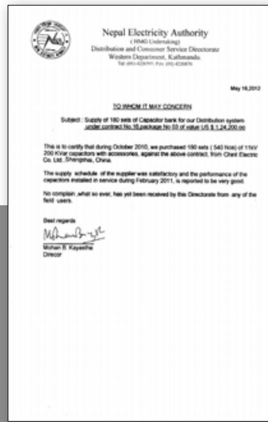
Best Regards,

Name: David J. Popko

Title: Lead Sourcing Specialist

For and on behalf of (company stamp): GE Energy

Date: September 7, 2012


Nepal Electricity Authority

Distribution and Consumer Service Directorate

Western Department, Kathmandu

May 16, 2012

TO WHOM IT MAY CONCERN

Best regards

Mohan B. Kayastha

Director


Kevitsa Mining

Running Declaration

To whom it may concern,

Best Regards


ZESCO

OPERATIONAL ACCEPTANCE CERTIFICATE

Date: 08 August 2020

CONTRACT NO. ZESCO/103/13 FOR THE SUPPLY,DELIVERY,INSTALLATION AND COMMISSIONING OF 150MVAr SHUNT CAPACITORS (3 X 30MVAr AND 3 X 20MVAr BANKS) FOR LUANO AND KITWE SUBSTATIONS

Contract: ZESCO/103/13

To: Chint Electric Company Limited,

No.1255 Wenhe Road,

Shanghai,

China.

Dear Ladies and/or Gentlemen,


OPERATIONAL ACCEPTANCE CERTIFICATE

Date: 08 August 2020

CONTRACT NO. ZESCO/103/13 FOR THE SUPPLY,DELIVERY,INSTALLATION AND COMMISSIONING OF 150MVAr SHUNT CAPACITORS (3 X 30MVAr AND 3 X 20MVAr BANKS) FOR LUANO AND KITWE SUBSTATIONS

Yours Faithfully

ZESCO LIMITED

Gordon Zaya Mwetoka

Senior Manager – Transmission North (Project Manager)


The Kenya Power & Lighting Co. PLC

Operational Acceptance Certificate

MUSAGA SUBSTATION

Yours Faithfully

For: THE KENYA POWER & LIGHTING COMPANY PLC

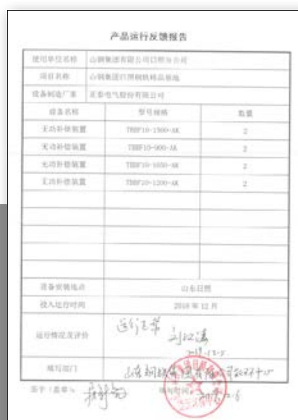

The Kenya Power & Lighting Co. PLC

Operational Acceptance Certificate

MERU SUBSTATION

Yours Faithfully

For: THE KENYA POWER & LIGHTING COMPANY PLC


产品运行反馈报告


产品运行报告

Operating Feedback

4.0

Customer Service

Transportation

- To ensure the safety of product transportation, Products can be placed in the container transportation, saving space and transportation costs

Installation

- The product is transported in a whole bay and modularity, which greatly reduces the workload of on-site installation.
- With professional after-sales installation guidance Engineer and standardized installation process, to ensure the on-site installation quality of product.

Commissioning

- After the completion of on-site installation, the on-site test shall be carried out. The main on-site test items are as follows:
  - Appearance inspection
  - Dielectric test
  - Insulation resistance test of reactor
  - Check the operating performance of circuit breaker
  - Measurement of capacitance of capacitors
  - Check the electrical interlock

Maintenance

- Due to the excellent performance of the product, it ensures less maintenance or maintenance-free during operation stage.
- The equipment can be maintained according to the following principles:
  - Switch operation cycles have reached the cycles specified in the Instruction Manual.
  - The breaking cycles of the Circuit Breaker have reached the cycles specified in the Instruction Manual.

Service

- Quality Management in the Whole Process and Life Cycle:
  - Rapid response to Customer needs;
  - Technical Service Team for Customer needs with professional service, standardized operation and well-trained;
  - With the green emergency service emergency repair channel, to make the acceptance of Customer service demands more rapid and convenient.

5.0

Performance

Mexico wind power plant AMISTAD IV project TAL34.5-7560/315-BLW

Mexico wind power plant AMISTAD II project TBB34.5-6600/550-BLW

Afghanistan 220 kV Outdoor Capacitor Complete Plant Project TBB220-40000/346-BLW

Philippines138 kV Outdoor Capacitor Complete Installation Project TBB138-20000/496-BLW

Mexico EGP34.5 kV Capacitor Complete Plant Project TBB34.5-7500/470-BLW

Myanmar Konestone Capacitor Project TBB66-8000/381-BLW

5.0 Performance

Columbia union project shunt capacitor installation project TBB115-5000/446.3-BLW

Zambia State Grid Corporation 66kV shunt capacitor installation project TBB66-30000/489-BLW

Zambia State Grid Corporation 11 kV Shunt Capacitor Installation project TBB11-30000/430-BLW

Kenya KPLC Power Bureau Project TBBF33-21000/1000+2000+6×3000-BLW

Fengshun Hongbao Casting Factory,Guangdong,China 35 kV Shunt Capacitor Installation Project TBB35-10800/450-ACW

China Inner Mongolia Tongwei High Purity Crystalline Silicon Co., Ltd. 500kV substation project TBB66-60000/500-AQW

5.0

Performance

PetroChina-Changqing Oilfield Company Shanggu natural gas project TBBF10-4000/334-AK

CNPC-Changqing Oilfield Company the seventh oil production plant project TBBZ10-500/100J+200+200-A

Inner Mongolia Shuangxin Chemical Engineering Project MSVC-35kV-20000kvar/20000kvar

Yunnan Qujing Xiaoxin Street Substation Project MSVC-35kV-14400kvar/9600kvar

4# LF Refining Furnace Project of Xinyu Iron and Steel TSVC-35kV-27000kvar/27000kvar

Tangshan Rixin Energy Co., Ltd Submerged arc furnace project TSVC-35kV-25000kvar/20000kvar

5.0 Performance

Performance in ZTSVG Static Var Generator

Tanzania Voltage drop compensation project for Buly Gold Mine project ZTSVG-C15/6.6-O-W

Mexico Power Plant Project ZTSVG-C3/23T-O-W

High-power test Compensation project of Dekai Test Center ZTSVG-C50/10-O-W

Yueqing Bay CHINT Photovoltaic Power Generation Project SVG-C20.0/35-W

Golmud Photovoltaic Power Generation Project ZTSVG-C16/35-O-W

Guangdong Meizhou Fengshun Hongbao Casting Factory Project ZTSVG-C25/35

CHINT

Empower the World

Asia Pacific

China | Global HQ
Zhejiang CHINT Electrics Co., Ltd.

Address:A3 Building, No. 3655 Sixian Road, Songjiang Shanghai 201614.
Tel: +86 21 5677 7777
Fax: +86 21 5677 7777
Email: global-sales@chintglobal.com
Website: www.chintglobal.com

Singapore | Asia Pacific HQ
CHINT Global Pte Ltd

Address: 8 Kallang Avenue, #04-06/09 Aperia Office Tower 1, Singapore 339509.
Tel: +65 6329 3110
Fax: +65 6329 3159
Website: www.chintglobal.com

Sunlight Electrical Pte Ltd

Address: 1 Third Chin Bee Road, Singapore 618679.
Tel: +65 6741 9055
Fax : +65 6265 4586
Email: sales@sunlightgroup.com
Website: www.sunlightgroup.com

India
CHINT India Energy Solution Private Limited

Address: Discovery Tower, Plot No. A-17, Ground Floor Industrial Area Sector 62 Noida, India 201309.
Tel: +91 1202 9750 57
Email: marketing@chint.co.in
Website: www.chint.co.in

Philippines
CHINT Electric Co., Ltd

Address: Unit 201, Taipan Place, F. Ortigas Jr. Road, Ortigas Center, Pasig City, Metro Manila, Philippines.
Tel: +63 967 273 0174 / +63 977 017 6320
Email: liq07@chintglobal.com / wencell@chintglobal.com
Website: www.chintglobal.com

Indonesia
PT. CHINT Indonesia

Address: Kompleks Prima Center I, Blok C9-10, Jl. Pesing Poglar Jl. Pool PPD No. 11, RT.9/RW.2, Cengkareng, Jakarta Barat.
Tel: +62 21 5436 3000
Email: sales@chint-indonesia.com
Website: www.chint-Indonesia.com

Vietnam
CHINT Vietnam Holding Co., Ltd

Address: So 2Bis-4-6, Le Thanh Ton, P. Ben Nghe Quan 1, Ho Chi Minh, Vietnam.
Tel: +84 0283 8270 015
Email: marketing.vn@chintglobal.com
Website: www.chintglobal.vn

Sunlight Electrical (VN) Co., Ltd

Address: 20 Doc Lap Ave, VSIP, Thuan An City, Binh Duong Province, Vietnam.
Tel: +84 0274 3743 505
Email: sales.sev@sunlightgroup-vn.com.vn
Website: www.sunlightvetnam.com.vn

Cambodia
CHINT (Cambodia) Power Equipment Co., Ltd

Address: No.15, St. 542, Sangkat Boeung Kok 1, Khan Toul Kork, Phnom Penh, Cambodia.
Tel: +855 23 231 077
Email: lbin3@chintglobal.com
Website: www.chintglobal.com

SchneiTec CHINT Co., Ltd

Address: Ansor Kdam Village, Sna Ansa Commune, Krakor District, Pursat Province, Cambodia
Tel: +855 09 5353 268
Email: liubin@schneitec-chint.com.kh / info@schneitec-chint.com.kh
Website: www.schneitec-chint.com.kh

Latin America

Brazil
CHINT Elétricos América do Sul Ltda.

Add: Av. Paulista, 1765 - Edifício Scarpa - Conjunto 22 , Bela Vista - CEP 01311-200 - São Paulo - SP
Tel. : +55 (11) 3266-7786
E-mail: chintbr@chint.com

Peru
CHINT LATAM (PERU) S.A.C.

Add: Av. Camino Real No.348, Torre El Pilar, Oficina 603, San Isidro, Lima 27, Peru
Tel: +51 1 763 4917
Email: chintlatamperu@chint.com

Ecuador
CHINT ELECTRICS (HONG KONG) LIMITED (Ecaudor Branch)

Add.: Calle: REP.DEL SALVADOR Número: 10-84 Intersección: AV NACIONES UNIDAS
Edificio: CENTRO COMERCIAL MANSION BLANCA
E-mail: lufz@chintglobal.com

CHINT

Empower the World

Europe

Italy

CHINT Italia Investment Srl

Add: Via Bruno Maderna 7 30174 Venezia
Tel: +39 041.446614
Fax +39 041.5845900
E-mail: info@chint.it

Spain

CHINT Electrics S.L.

Add: Calle José Echegaray, Num 8.Parque Empresarial Las RozasEdifificio 3, Planta Baja, Ofificina 7-8.C.P: 28232 Las Rozas (Madrid)
Tel: +34 91 645 03 53
E-mail: info@chint.eu

Czech Republic

NOARK Electric Europe s.r.o.

Add: Sezemická 2757/2, 193 00 Prague 9
Tel: +420 226 203 120
Email: europe@noark-electric.com

Turkey

CHINT Turca Elektrik Sanayi VE Ticaret Anonim Sirketi

Add: Zumrutevler Mahallesi Ural Sokak No. 22/18 NAS PLAZA B Block KAT 1, Maltepe, Istanbul
Tel: +90216 621 00 55
Fax.:+90216 621 00 50
E-mail: fatura@chint.com.tr

West Asia & Africa

Egypt

CHINT Electrics (Egypt) Co., Ltd

Add: Building B16 - Smart village, Abu Rawash - Giza, Egypt
Tel: +20 1097173769
P.O BOX : 00202
Email: chinteg@chintglobal.com

Kenya

ZHENGTAI ELECTRICS(KENYA) CO., LIMITED

Add: OFFICE 1A，8TH FLOOR, KISM TOWERS, LR No. 209/945/1– NGONG ROAD – NAIROBI， KENYA
Tel: +254 072256485
Email: chintkenya@chintglobal.com

U.A.E

CHINT MIDDLE EAST AND AFRICA DMCC

Add: Unit No: 2101, 21085,2109 , Jumeirah business center 1, Cluster G, Jumeirah Lakes Towers, Dubai, UAE
Tel: +97145571532
P.O BOX: 337555
E-mail: global-sales@chint.com

Nigeria

CHINT POWER & ENERGY SERVICES CO., LIMITED

Add: 3RD FLOOR TOWER 2, CHURGATE BUILDING , VICTORIA ISLAND, LAGOS
Tel: +234 8110728119
E-mail: czjie@chintglobal.com

North America

United States

NOARK Electric (USA) Inc

Add: 2188 Pomona Blvd., Pomona, CA 91768
Tel: 626-330-7007
Fax: 626-330-8035
E-mail: nasales@noark-electric.com

Mexico

CHINT SOLAR MEXICO S DE RL DE CV

Add: Miguel Cervantes Saavedra 169 Piso 11 Col. Granada Del. Miguel Hidalgo C.P. 11520 CDMX, México
Tel: +52 1-55-8881-6127
E-mail: info@chint-mexico.com

Chint Global

CHINT GLOBAL PTE. LTD.
Building A3, 3655 SiXian Road, Songjiang District, Shanghai, China

Tel: +86-21-5677 7777 Web: www.chintglobal.com
E-mail: global-sales@chintglobal.com

A CHINT COMPANY