



# ***TOTAL SOLUTION* for Power Industry**



Towards a better future

Human Technology beyond the Future

**POWERMAX**

파워맥스

# Overview

**POWERMAX Co., Ltd.** being specilized in design and manufacturing of electrical equipment, has been pursuing the business goal of providing total solution to the customers around the world since its establishment.

We are offering the complete range of electrical equipment for power plants, transmission and distribution, and various industrial sectors such as Transformers, Generators, Control Systems and Renewable Energy etc.

Among such wide range of products, POWERMAX Transformers featuring the excellent performance and a high reliability proven through a lot of experiences from Lee-chun Electric, have been delivered to the customers and gained good reputation from the customers.

In order to serve the customers with efficient global capacity, POWERMAX operates overseas branch office in Vietnam.

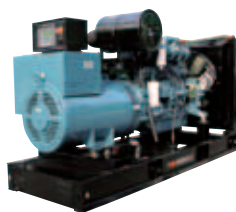
POWERMAX Shihwa plant, equipped with the most advanced manufacturing and testing equipment, and having the annual capacity 3,000MVA, is manufacturing distribution and power transformers up to 72kV including cast resin and various special purpose transformers such as furnace transformers and Tyristor transformers, Mobile transformers.

POWERMAX, having the competitive edges in price, delivery and quality, has become the world leading supplier of transformers over the short span of period since its establishment. It is committed to offering the best service for the customers including after-sales services.

POWERMAX Co., Ltd. has kept total quality system certified by ISO 9001 and is providing quality products and services for the customers in accordance with international requirements.(KS, ANSI, IEC, NEMA, BS, CSA, JEC, AS, etc.)



Power/Distribution Transformer



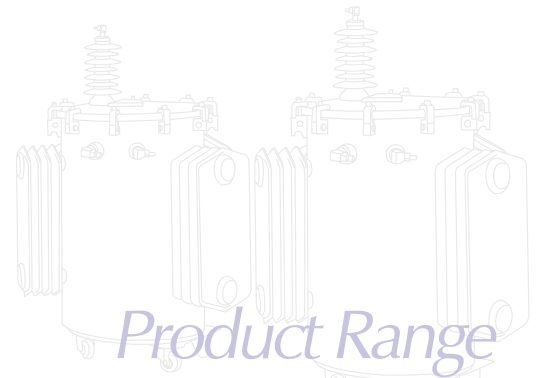
Diesel Generator



SF6 Gas Insulated Switch Gear



Pole Transformer



# Power Transformer

Being classified by its application, transformers can be divided into Power transformer, Distribution transformer and Special transformer.

Production range of POWERMAX fully covers the above transformer and services as follows ;

- **Power Transformer up to 72kV 80MVA**

- **Special Transformer ;**

Thyristor Transformer  
Furnace transformer  
Mobile Transformer  
Scott Transformer for Electric Train

- **Supervision of Transformer Installation & Commissioning**

- **Advisory Service of Transformer Specification**

- **Training of Customer Personnel**

- **Inspection & Trouble shooting service**

- **Investigating and Assessment of problems**



Power Transformer



40MVA Power Transformer(EGYPT)



Mobile Transformer

# Product

## *Distribution Transformer*

Production range of POWERMAX Distribution Transformer covers as follows ;

- **Distribution Transformer**
- **Oil Immersed Transformer**
- **Cast Resin Transformer**
- **Pole Transformer**
  - Low Loss Type
  - CSP [Self Protection] Type
  - Amorphous Type
- **Pad Mounted Transformer**
  - With Load break Switch
  - Loop or Radial Feed
  - Live or Dead Front
  - 50kVA ~ 5000kVA



Oil Immersed Transformer



Cast Resin Transformer



Pole Transformer



Pad Mounted Transformer

# Range

## Generator

### Various Type ;

Product can be provided upon customer's request, normally from 10kW to 3600kW

### Excellent Performance

Increased product credibility and easy operation are provided through the adoption of cutting-edge CAD design and digital control method.

### Solid Structure and Strong Durability

Alternator is directly connected to engine through hard flexible coupling, providing simple structure and efficient power delivery. Alternators guarantee long-period use as Single bearing type.

### Protective Device

Safety is guaranteed through load protective device system.

### Technical Power for Achieving Trouble-Free Product

Alternator installs cooling fan for outstanding cooling effects, and control components use I.C. to enable simple use and extremely low trouble rate.

### Inexpensive Maintenance Cost, Perfect After-Sales Service

Fuel cost is low due to optimum operation at various conditions. Quick, through, reliable after-sales services is always available for customers

- Emergency Generator
- AC Generator for Land-Use
- AC Generator for Marine & Off Shore use
- Motor-Generator set(Frequency transformer use, other special uses)
- Generator Control Panel & Synchronous Panel
- Small size Co-generation Apparatus





# Worldwide Experience

POWERMAX products have been supplied to a lot of countries all over the world and have achieved a world-wide reputation for their quality and performance to the customer's satisfaction.

## Countries where POWERMAX products are in Service



## Supply List of PowerMax Power Transformer in Oversea Market

No.	Description	Capacity	Q'ty	Customer/Country	Delivery
1	3ø 50Hz 500kVA 6.6kV-210V	2	Toshiba Mitsubishi Electric Industrial Systems Corporation	2013	Japan
2	3ø 60Hz 20, 30, 300, 750, 1500kVA 440V-220V	9	JFE Steel (Kurashiki)	2013	Japan
3	4.16kV/480V 2/2.5MVA & 2.5/3.125MVA	12	BECHTEL	2013	U.S.A.
4	23kV/3.5kV 1500kVA & 3000kVA Pad TR	2	HBRIONES	2013	Chile
5	34.5/13.8kV 10/12.5MVA	1	ENSA	2013	Panama
6	13.2kV - 480/277V 6MVA	2	PPC	2013	Panama
7	3P - 50Hz - 6.6/20kV 12/15MVA & 800kVA	6	Prasti Wahyu	2013	Indonesia
8	3ø 30, 50, 100, 200, 300, 500kVA 440-210V	11	JFE Steel (Fukuyama)	2013	Japan
9	34.5/13.8kV 10/12.5MVA	1	OER	2013	Panama
10	60Hz 7.6/13.2kV-120/240V 15, 25, 37.5, 50kVA pole TR	279	Surigao del Norte Electric Cooperative	2013	Philippines
11	3ø 60Hz 6.6kV-210V 300, 500kVA	20	Seiritsu Corp.	2012	Japan
12	3000, 2500, 2000, 1000, 500kVA	52	Posco Guadalajara Plant in Mexico	2012	Mexico
13	3P - 50Hz - 33kV//11.5kV 31.5MVA	20	MOE	2012	Iraq
14	630kVA	1	Yodogawa	2012	Japan
15	3850kVA, 3215kVA, 5/6.5MVA, 5.5/7.3MVA, 10MVA, 15MVA, 20MVA	16	SWCC	2012	Saudi Arabia
16	3P - 60Hz 69kV/13.8kV 20MVA	1	DMCI Palawan power plant	2012	Philippines
17	3P - 35/6kV - 20/25MVA	1	LS IS (LG Chemical plant)	2012	China
18	50kVA, 25kVA	20	Bosung Powertech	2012	Philippines
19	1667/1867, 3333/3733, 5000/5600, 6667/7467, 8333/9333kVA	70	LADWP	2009	U.S.A.
20	3ø 50Hz 32/40MVA 66kV-11.86kV	4	EETC	2009	Egypt
21	5/6.5MVA, 5.5/7.3MVA, 10MVA, 15MVA, 20MVA	12	SWCC	2009	Saudi Arabia
22	3P - 50Hz - 20/6.3kV - 20/25MVA	2	GNCE/BCE/TEP	2008	Iran

# Certifications

It is the policy of POWERMAX that the products shall meet the customer's specified and implied requirements, industrial codes and national standards and shall be produced and delivered to the customers on schedule.

We have been dedicated to supplying the best quality products and services for our customers. And we have developed POWERMAX's own quality assurance program to comply with the ISO 9001 as required by the most authoritative International Organization for Standardization (ISO) in order to assure that POWERMAX products are designed, manufactured, inspected, tested and delivered in the most efficient manner.



ISO 9001 Certificate of POWERMAX Plant Quality System Certificate

POWERMAX also considers human safety and environmental protection, the most important in performing all related works in its business, and thus acquired ISO 14001 (Environmental Management Certificate) and OHSAS 18001 Certificate (Occupational Health & Safety Management System Certificate)



ISO 14001 and OHSAS 18001 certificate Environmental/ Health & Safety Management Certificate

## Factory & Facilities



Factory Site



Transformer Factory



600kV 30kJ Impulse Test System by Haefely Test AG

## POWERMAX creates new history today!

- 2013. 07 Awarded the KEPCO Trusted Partner
- 2011. 02 Chairman Chang elected the Chairman of Korea Electrical Manufacturers Association(KOEMA)
- 2010. 10 Installed Impulse Test System 600kV 30kJ (Haefely/Switzerland)
- 2010. 08 Selected as One-KEPCO Export Company (Korea Electric Power Corporation)
- 2010. 05 Awarded the KOTRA Seal of Excellence
- 2010. 02 Acquired High-Efficiency Energy Equipment Certification (Korea Energy Management Corporation)
- 2009. 10 Selected as Innovative Technology SME (INNO-BIZ)
- 2009. 06 Established ERP System
- 2009. 03 Extended Transformer Factory (Up to 80MVA)
- 2008. 09 Introduced Six-sigma Management
- 2006. 09 Selected as Innovative Business SME (MAIN-BIZ)
- 2006. 08 Selected as PL Outstanding Company
- 2006. 06 Standard Pole Transformer (100kVA) Performance Certification
- 2005. 04 Registered as Supplier of C-GIS (KEPCO)
- 2004. 11 Registered as 154kV Power Line Constructor
- 2003. 11 Awarded "Bronze Tower" Industrial Award at the National Quality Management Contest
- 2003. 04 Acquired Electric Work License (Gyeonggi-do)
- 2003. 01 Selected as Promising Power Venture Company (KEPCO)
- 2002. 10 Selected as Promising SME (Industrial Bank of Korea)
- 2002. 07 Designated as Export Promising SME (Gyeonggi SME export center)
- 2001. 12 Acquired ISO Certification
- 2001. 06 Selected as Promising SME (Industrial Bank of Korea)
- 2001. 02 Established POWERMAX Technology Institute
- 2000. 08 Designated as Small and Medium Business Administration Venture Company
- 2000. 03 Established POWERMAX Co., Ltd. (Merged Danam Power and Hanki Heavy Electric)
- 1996. 07 Established Hanki Heavy Electric Co., Ltd.
- 1991. 06 Establish Danam Power Co., Ltd.

## **POWERMAX** 파 위 맥 스

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