POWER SAVING SYSTEM

[FORCE]

enposs
energy power saving syste

ENERGY POWER SAVING SYSTEM

I. Company History

2018 * Establish Branch office in LA, USA
* Award the priority supply company to Korean government office
* Contract to supply shipping company

2017 * Establish JV in Vietnam
* Award classify from KR
* Function test certificate from Korean SGS

2010 * SGS TEST 6%
* SUWON UNIVERSITY-ENPOSS LAB establish

2009 * IACS Certificate
* NOM Safety Certificate in Mexico
* ST Safety Certificate in Malaysia
* Safety Certificates in other countries
* Enrolling Certification to reduce CO2
* Saving Efficiency Certificate by ANCE in Mexico (Saving 8.85%)

2008 * Established ENPOSS Inc.
* Certified Electrical Safety by CE
* Certificate by ISO 9001:2000
* Saving Efficiency Certificate by TUV
* Expanding Int'l Sales
* Established Global Distribution Network

2007 * Domestic Patent applied for Power Saver
* Int'l Patent PCT applied for Power saver
* Electrical Safety test by KTL
* Established Factory
* Launched Power Saver called "FORCE"
* Established Domestic Distribution Network
* Global Sales in China, Mexico
* Registered Rental System for Domestic Sales
* Registered at the office of Procurement

2006 * Power Saver Business for Apartment Complex and Industries
* R&D on Power Saver and Completed Safety Test

2005 * Power Saver Business
* New Renewable Energy Business
* Solar Cell and Solar Heat Business
* Opened ENPOSS Company

Ⅱ. The Principal of FORCE-1

The FORCE(electrical energy saver by ENPOSS)

Major component of FORCE is called "**EMF-7**" consisting of hybrid minerals which are specially applied and developed. Producing electromagnetic waves by **EMF-7** made through a electrical, physical and chemical operation. The produced electromagnetic waves which are able to generate some current goes or emits to whole facility through conductive wires. The **EMF-7** absorbs, offsets or filters harmful elements such as Impedance, Harmonics, High/Low Frequencies etc. Electromagnetic emitter having a little current help the free electrons flow conveniently.

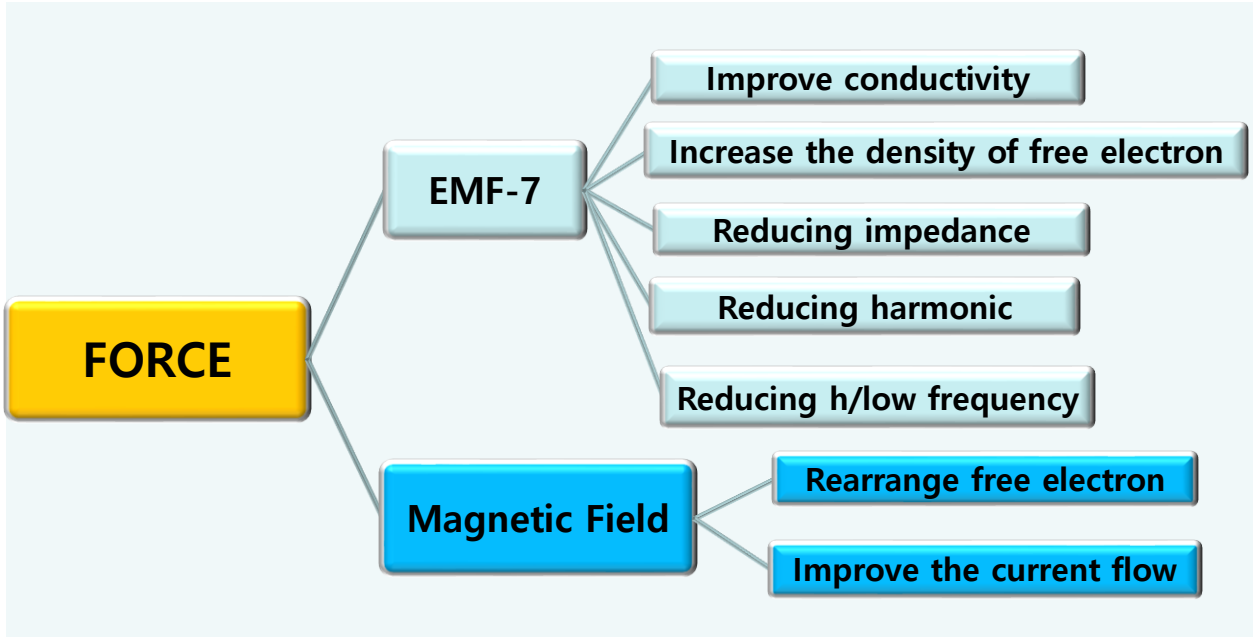
Dimension(FORCE)

Product			W*L*H(mm)	EA	Weight(Kg)
2P2W	F-205	5	80*130*35	2	1.5
	F-210	10	80*130*70	2	2.5
	F-220	20	80*160*90	2	5
3P4W	F-4010	10	65*95*55	4	3
	F-4020	20	80*110*70	4	5.5
	F-4030	30	80*130*60	4	7
	F-4050	50	80*180*70	4	9
	F-4070	75	80*180*85	4	11
	F-4100	100	80*250*85	4	14
	F-4200	200	130*180*100	4	18
	F-4300	300	140*230*95	4	23
	F-4400	400	150*250*100	4	27
	F-4500	500	150*250*130	4	30
	F-4700	750	190*280*130	4	45
	F-4110	1,000	190*380*130	4	56

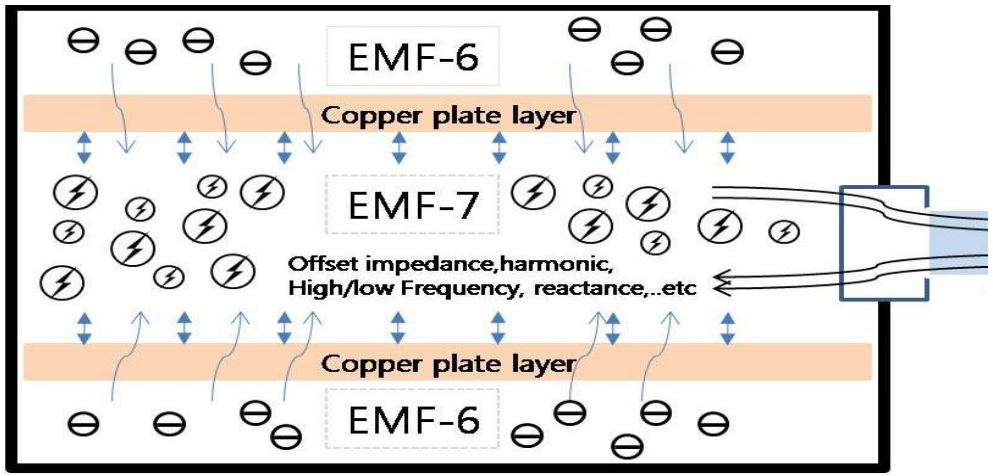
FORCE-1 phase

FORCE-3 phase

Ⅱ. The Principal of FORCE-2



Tourmaline



EMF-6 : emission anion layer

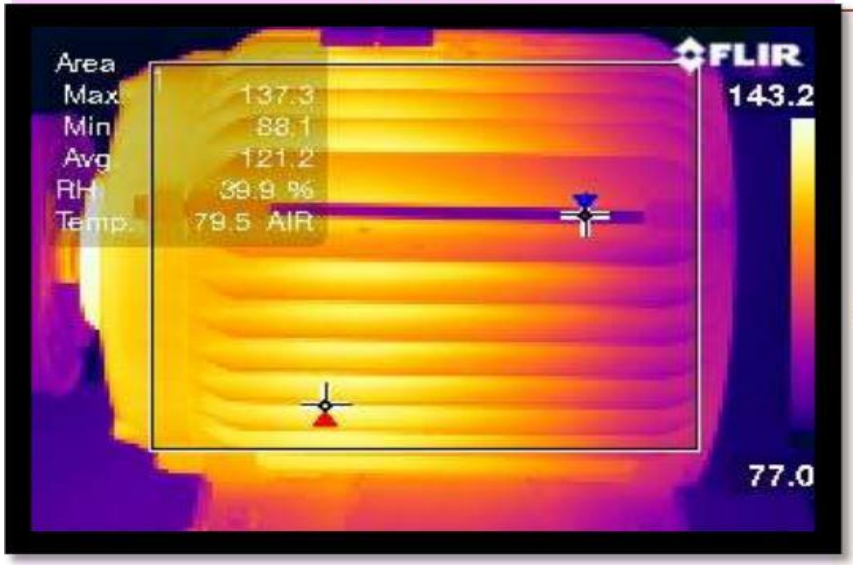
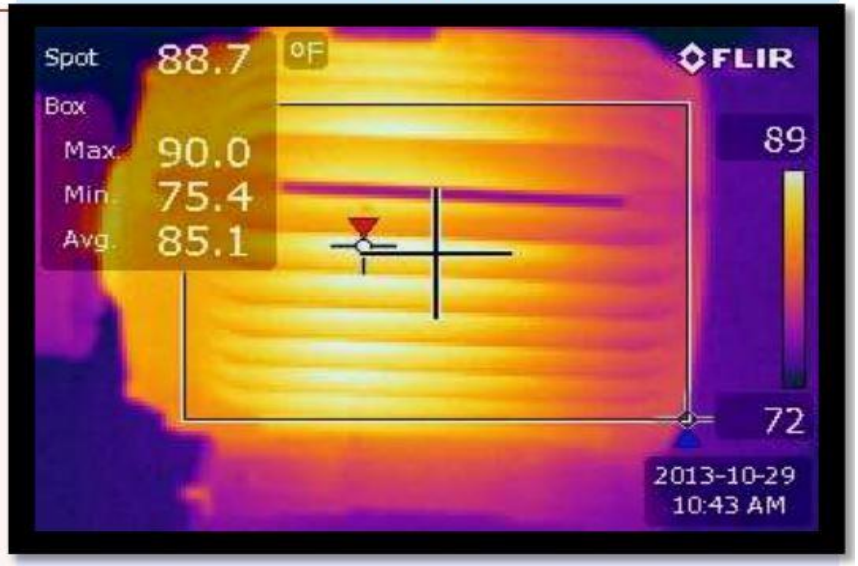
EMF-7 : emission subtle current layer
(produce electric/magnetic field)

Copper plate layer : part of ionization, electrification

Ⅲ. The effect & expectation of FORCE installation

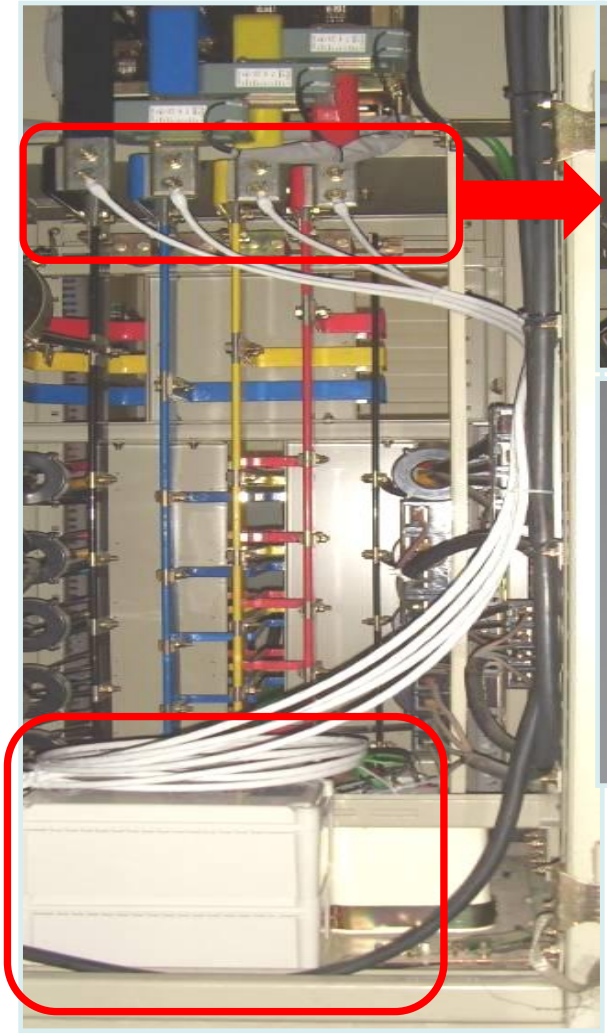
Strong point of FORCE	Expectation of FORCE installation
Increase the conductivity by free electron	Save the electrical energy by minimize the impedance losses
Improve the harmonic distortion	Extend the life cycle of equipment by improve the impact wave
Improve the Noise	Improve the current flow
No electrical power consumption	Very small current flow 0.06mA
Connect in parallel(open circuit)	No change on existing system & safe
Can apply all electrical system	Possible to apply low/ high voltage system
Easy to install	Install for loosen the 4 bolt or nut & retite.

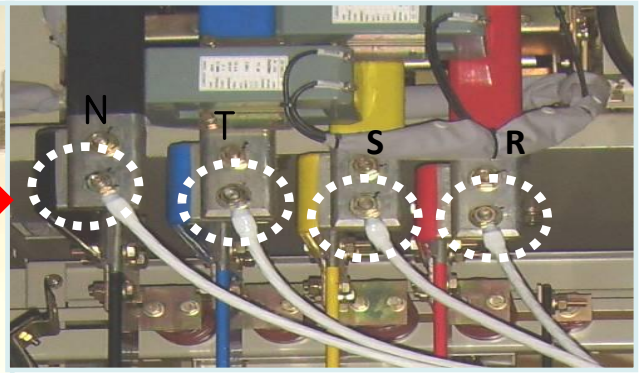
IV. Running Temperature drops on Motor

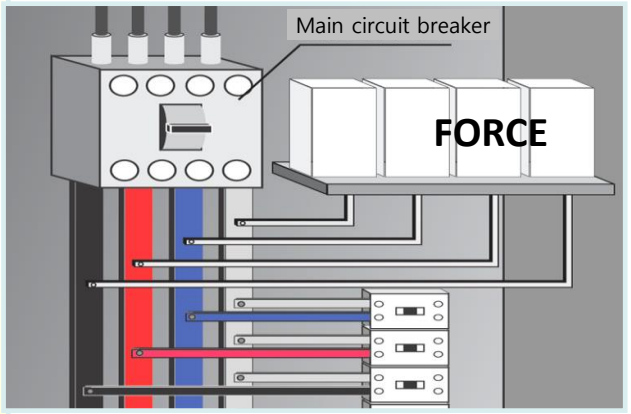
Before		After
	IR image	
137.3 F	Max	90.0 F (34.5% Down)
88.1 F	Min	75.4 F (14.4% Down)
121.2 F	Avg	85.1 F (29.8% Down)

1. Temperature drops observed on pump motor.
2. Average temperature dropped from 121.2F(pre) to 85.1F(post) by 29.8%

V. Installation - simple

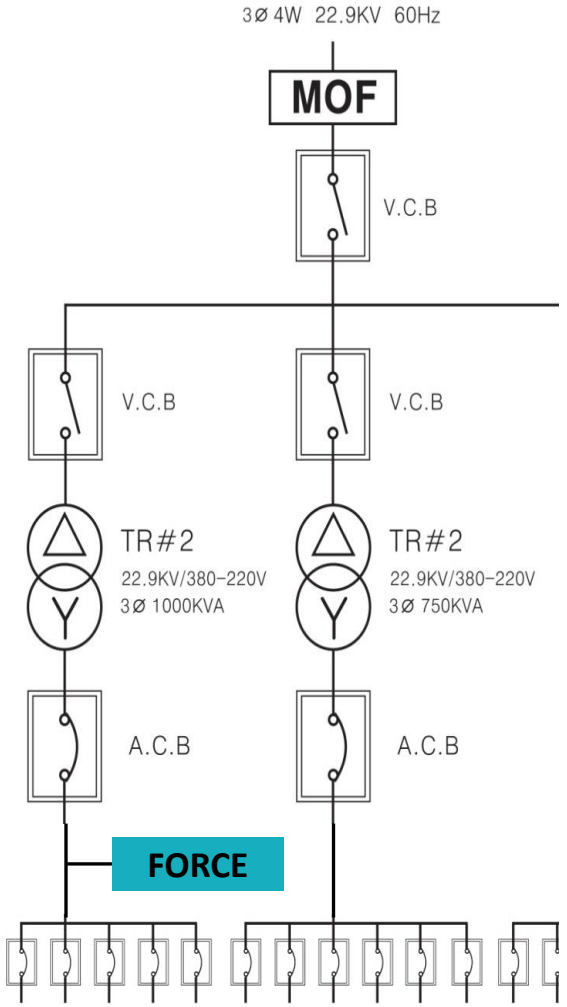






★ **Location of installation**

The secondary of main A.C.B of every phase R, S, T, N in parallel



VI. The performance test report (TUV, SGS)

TÜVRheinland®

Ref.: 35183611
Fecha : 15.12.08
Hoja : 25 de 25

5. CONCLUSIONES.

Observando estas gráficas, no se detecta una disminución del consumo, en condiciones normales de uso (horario de atención al público) con respecto a la instalación original, excepto en T-1. Cabe indicar que las condiciones ambientales de los dos periodos no han sido iguales, pudiendo existir mayor consumo de la instalación debido a la mayor demanda de los equipos de climatización.

No ocurre lo mismo en estado de bajo consumo (tienda cerrada), donde los registros indican una disminución bastante considerable, tal como se puede observar en las gráficas aportadas.

En los registros obtenidos en horario de cierre, la disminución de consumo se ha reducido un 11,3 % en T-1, un 6% en T-2 y 4,5% en T-3, aproximadamente.

El Prat de Llobregat, 16 de diciembre de 20

Albert Castello Esteve
Técnico de TÜV RHEINLAND Iberica Inspection, Certification & Testing, S.A.

SGS

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2010-01-27

5.- CONCLUSIONS.

According to the obtained results, it is possible to state that there is a 5,8 % reduction in the energy consumption during a six days period of time, regarding the same period without the energy saving system installed.

A **progressive consumption decrease** of the consumption can be observed at the second part of the test when comparing it with the first part, where the energy consumption remains steady along November 17th and 22nd. The **maximum appreciated reduction is -7,12 %**.

To summarize, it is possible to confirm that the FORCE energy saving device has influence on the installation, achieving a significant reduction in the energy consumption

Laboratory Analyst | Laboratory Technical Manager

P.A. SGS Tecnos, S.A. Laboratorio de Ensayos Eléctricos

FERNANDO PALACIOS CASTILLO | FERNANDO MONTES CLAVER

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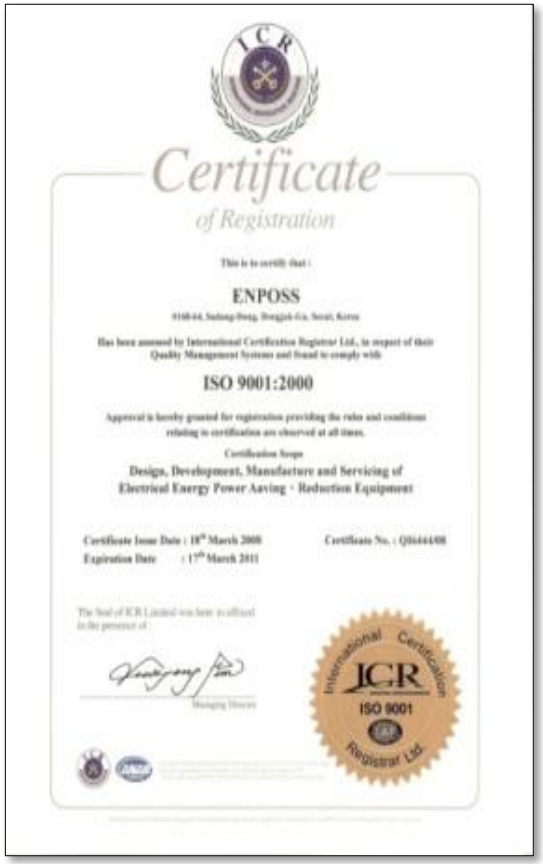
ELECTRICAL TEST LABORATORY : C/ Trespaderne, 29 - Edif. Barajas 1 (28042 MADRID)
Tfno.: 913 138 000 / Fax: 913 138 093

A **progressive consumption decrease** of the consumption can be observed at the second part of the test when comparing it with the first part, where the energy consumption remains steady along November 17th and 22nd. The **maximum appreciated reduction is -7,12 %**.

To summarize, it is possible to confirm that the FORCE energy saving device has influence on the installation, achieving a significant reduction in the energy consumption

En los registros obtenidos en horario de cierre, la disminución de consumo se ha reducido un 11,3 % en T-1, un 6% en T-2 y 4,5% en T-3, aproximadamente.

Ⅶ. Quality Certificate & Patent



Certificate
of Registration

This is to certify that :

ENPOSS

Has been assessed by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with

ISO 9001:2000

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

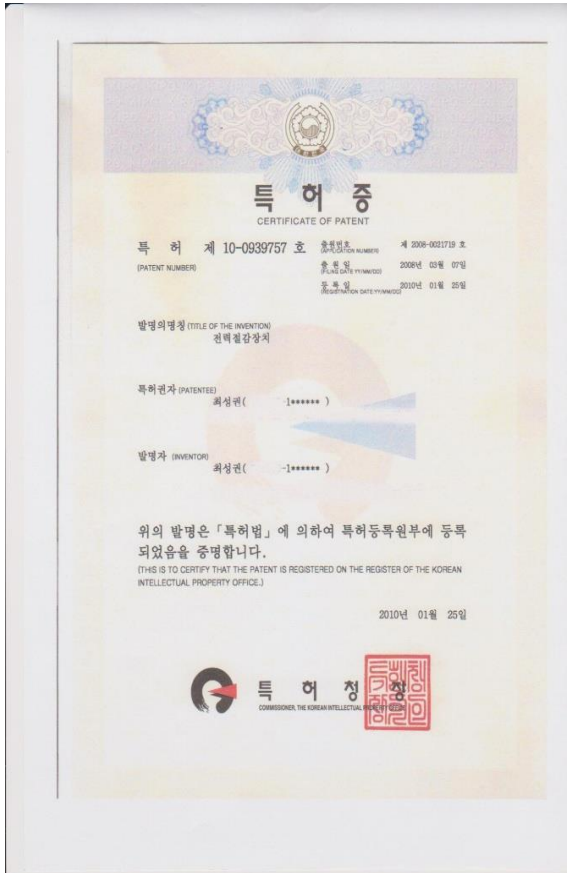
Certification Scope

Design, Development, Manufacture and Servicing of Electrical Energy Power Saving · Reduction Equipment

Certificate Issue Date : 18th March 2008
Expiration Date : 17th March 2011

Certificate No. : Q5644/08

International Certification JCR ISO 9001 Registrar Ltd



특 허 증
CERTIFICATE OF PATENT

특 허 제 10-0939757 호 (PATENT NUMBER)

출원번호 (APPLICATION NUMBER) 제 2008-0021719 호
출원일 (FILING DATE:YY/MM/DD) 2008년 03월 07일
등록일 (REGISTRATION DATE:YY/MM/DD) 2010년 01월 25일

발명의명칭 (TITLE OF THE INVENTION)
전력절감장치

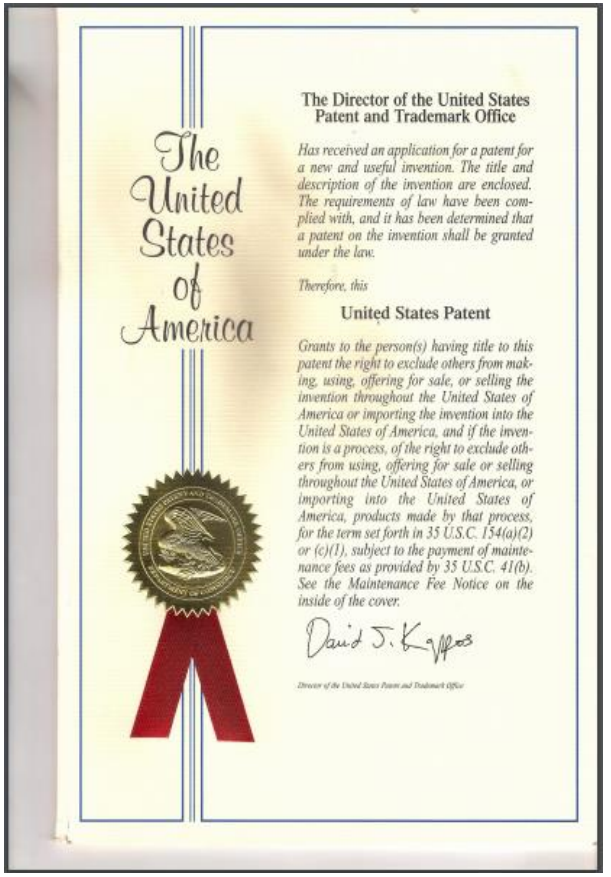
특허권자 (PATENTEE)
최성권(1******)

발명자 (INVENTOR)
최성권(1******)

위의 발명은「특허법」에 의하여 특허등록원부에 등록되었음을 증명합니다.
(THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2010년 01월 25일

특 허 청
COMMISSIONER, THE KOREAN INTELLECTUAL PROPERTY OFFICE



The United States of America

The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

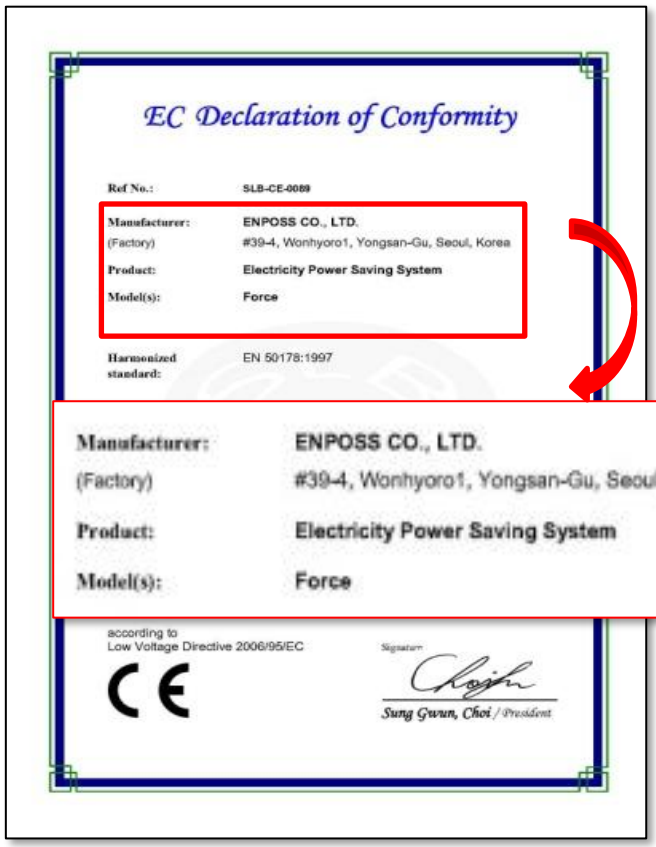
United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

David J. Kappos

Director of the United States Patent and Trademark Office

Ⅷ-1. Safety Certificate (Europe, Mexico & China)



EC Declaration of Conformity

Ref No.: SLB-CE-0089

Manufacturer: ENPOSS CO., LTD.
(Factory) #39-4, Wonhyoro1, Yongsan-Gu, Seoul, Korea
Product: Electricity Power Saving System
Model(s): Force

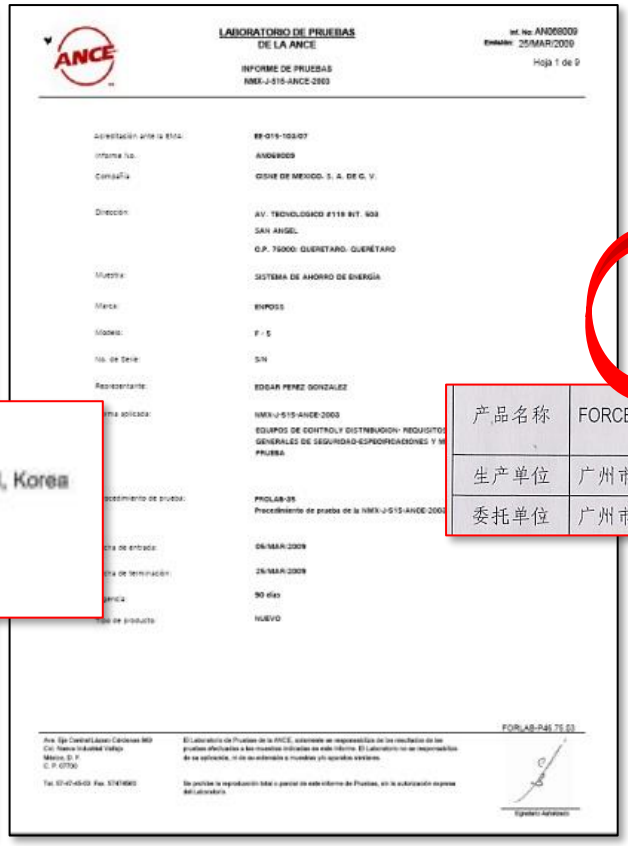
Harmonized standard: EN 50178:1997

Manufacturer: ENPOSS CO., LTD.
(Factory) #39-4, Wonhyoro1, Yongsan-Gu, Seoul, Korea
Product: Electricity Power Saving System
Model(s): Force

according to
Low Voltage Directive 2006/95/EC

CE

Signature
Sung Gwun, Choi / President



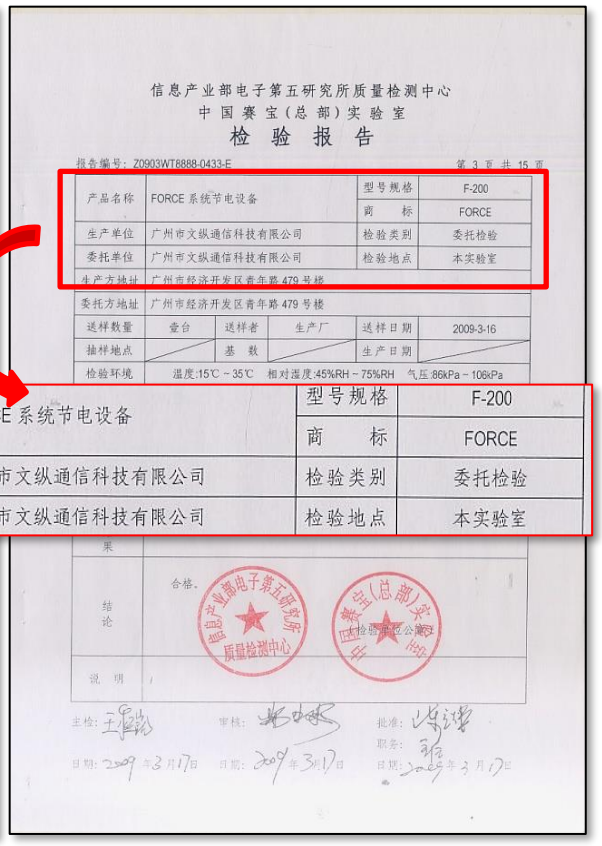
ANCE

LABORATORIO DE PRUEBAS
DE LA ANCE

Int. No. AN068009
Emisión: 25/MAR/2009

INFORME DE PRUEBAS
NMX-J-515-ANCE-2003

Hoja 1 de 9



信息产业部电子第五研究所质量检测中心
中国赛宝(总部)实验室
检 验 报 告

报告编号：Z0903WT8888-0433-E 第 3 页 共 15 页

产品名称	FORCE 系统节电设备	型号规格	F-200
		商 标	FORCE
生产单位	广州市文纵通信科技有限公司	检验类别	委托检验
委托单位	广州市文纵通信科技有限公司	检验地点	本实验室
生产方地址	广州市经济开发区青年路 479 号楼		
委托方地址	广州市经济开发区青年路 479 号楼		
送样数量	壹台	送样者	生产厂
抽样地点		基 数	
检验环境	温度:15℃～35℃ 相对湿度:45%RH～75%RH 气压:86kPa～106kPa		

产品名称	FORCE 系统节电设备	型号规格	F-200
		商 标	FORCE
生产单位	广州市文纵通信科技有限公司	检验类别	委托检验
委托单位	广州市文纵通信科技有限公司	检验地点	本实验室

Ⅷ-2. Safety Certificate (Russia, U.S.A. & Korea)

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ГОССТАНДАРТ РОССИИ

Добровольная сертификация

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС KR.AB48.H00632

Срок действия с 06.07.2009 по 05.07.2010

1164578

ОРГАН ПО СЕРТИФИКАЦИИ

Рег. № РОСС RU.0001.11AB48
ПРОДУКЦИИ «МЕЖРЕГИОНЭКСПЕРТ»
107113, г. Москва, Сокольническая пл., 4А
Почтовый адрес: 109153, г. Москва, а/я 21, тел. / факс: (499) 500-96-69, E-mail: mejregionexpert@mail.ru

ПРОДУКЦИЯ

Энергосберегающая система "FORCE"
Контракт б/н от 05 февраля 2009 года
Серийный выпуск

код ОК 005 (ОКП): 34 2000

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

ГОСТ 12.2.007.0

код ТН ВЭД: 8543 70 900 9

ИЗГОТОВИТЕЛЬ

Фирма "ENPOSS CO, LTD"
39-4 Wonhyoro 1, Yongsan-Gu, Seoul, Республика Корея

СЕРТИФИКАТ ВЫДАН

ООО "Альтернативная Энергетика РО" (ООО "АЭРО"). Код-ОКПО:89055979, ИНН:7810539932
196105, Россия, Санкт-Петербург, ул. Сызранская, д16, лит. А, пом. 22 Н, тел. 575-10-26

НА ОСНОВАНИИ

Протокола сертификационных испытаний № 110-45-05/09 от 28.05.2009 г.
Испытательная лаборатория ЭТИ ООО "Эксперт", рег. № РОСС RU.0001.21МЛ36 от 15.10.2008 г.

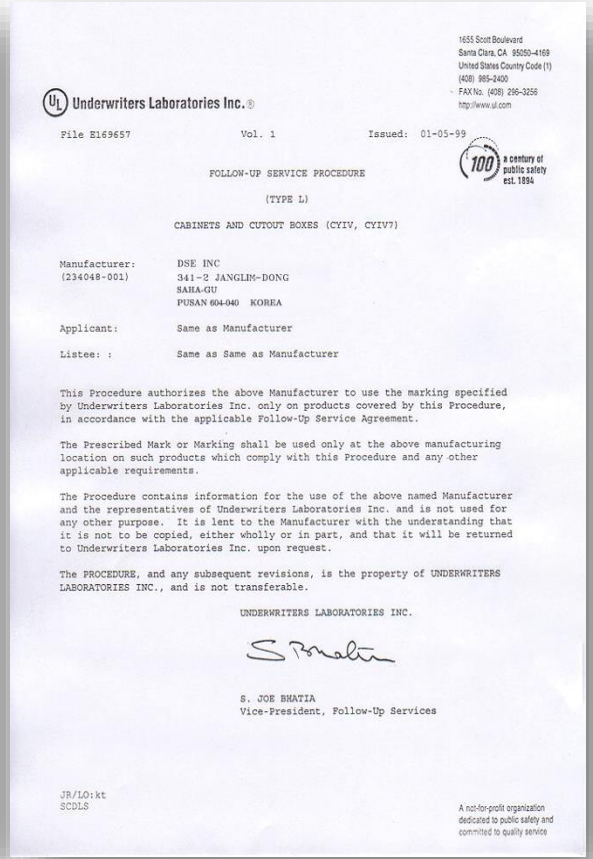
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Схема сертификации 2.

М.П. Руководитель органа Е.Ю. Солодихина

Эксперт И.П. Максимов- Востоков

Сертификат не применяется при обязательной сертификации



Underwriters Laboratories Inc.®

1655 Scott Boulevard
Santa Clara, CA 95050-4169
United States Country Code (1)
(408) 985-2400
FAX No. (408) 296-3256
http://www.ul.com

File E169657 Vol. 1 Issued: 01-05-99

100 a century of public safety est. 1894

FOLLOW-UP SERVICE PROCEDURE

(TYPE L)

CABINETS AND CUTOUT BOXES (CYIV, CYIV7)

Manufacturer: (234048-001) DSE INC
341-2 JANGLIM-DONG
SAHA-GU
PUSAN 604-040 KOREA

Applicant: Same as Manufacturer

Listee: : Same as Same as Manufacturer

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

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S. JOE BHATIA
Vice-President, Follow-Up Services

JR/LO:kt
SCDLS

A not-for-profit organization dedicated to public safety and committed to quality service

ktl 한국산업기술시험원

시험성적서

1. 신청자
   회사명 : 엔포스
   주 소 : 서울특별시 용산구 서빙고동 186-64
2. 시험품
   품 명 : 절전기
   모델/형식 : F - 330
   제 조 사 : ***
3. 시험규격/방법 : 의뢰자가 제시한 시험기준
4. 시험 결과 : 시험결과 참조
5. 성적서 용도 : ***
6. 접수 일자 : 2007. 09. 10
7. 발급 일자 : 2007. 09. 11

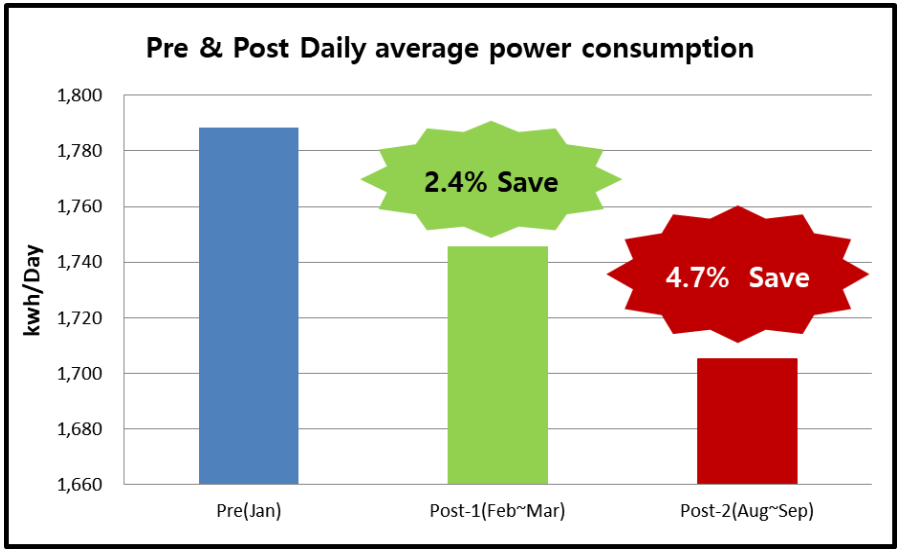
시 험 자 승 인 자

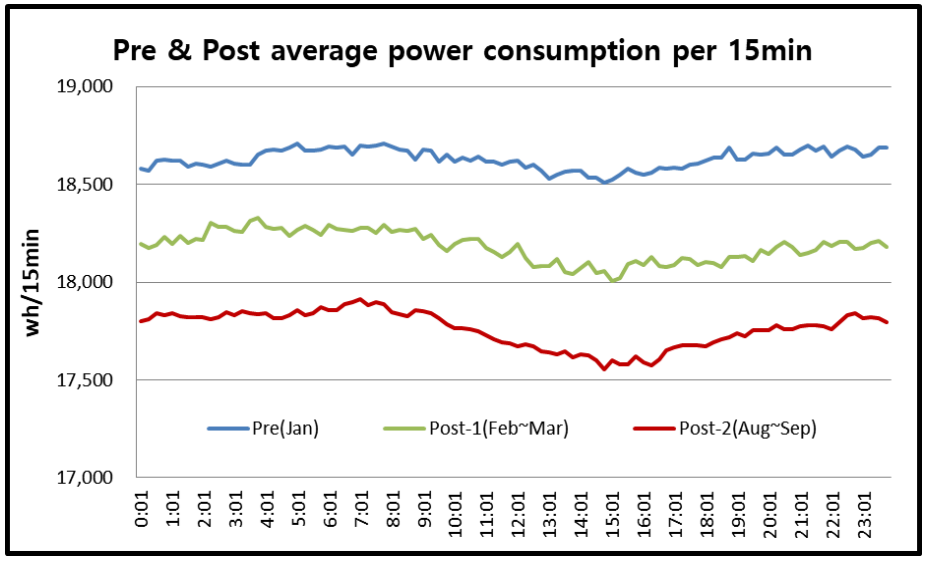
한국산업기술시험원장

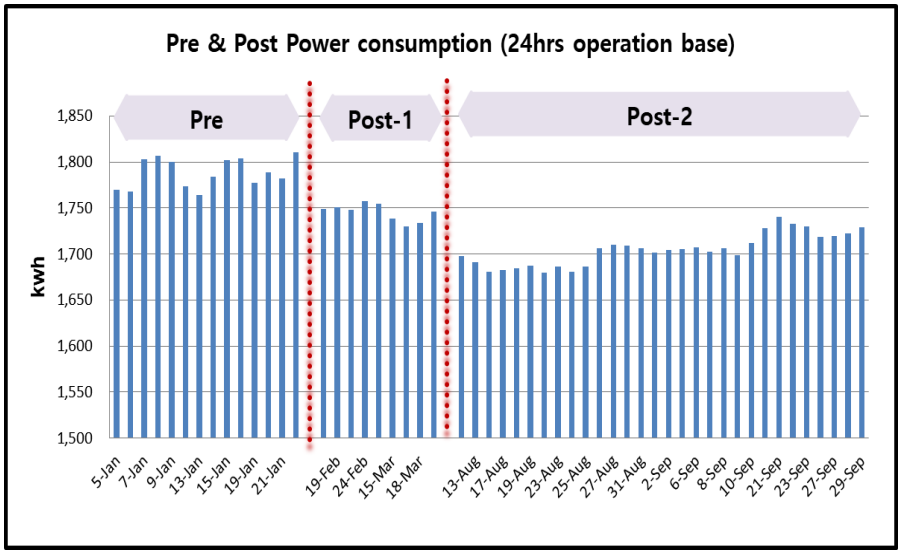
IX-1. Sales performance data (kyungshin Cable)

Project Summary

1. Major product : Wire harness for Automotive
2. Main Transformer : 2,870Kva
3. Test method to prove : individual load test
4. Graph of tested object : one of air compressor (HIOKI 3169)
5. Load connected: Air compressors, Winding M/C,
6. Save energy in average : 5.6% of total connected load



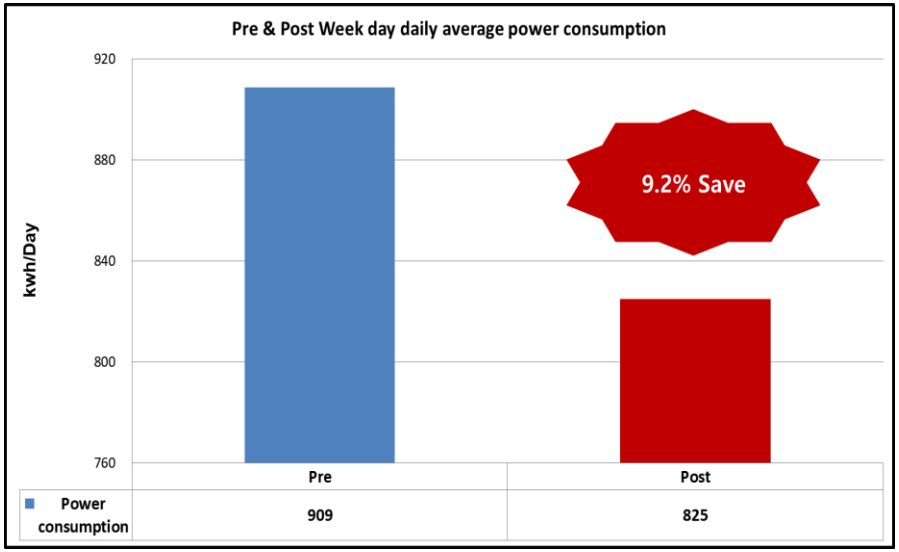


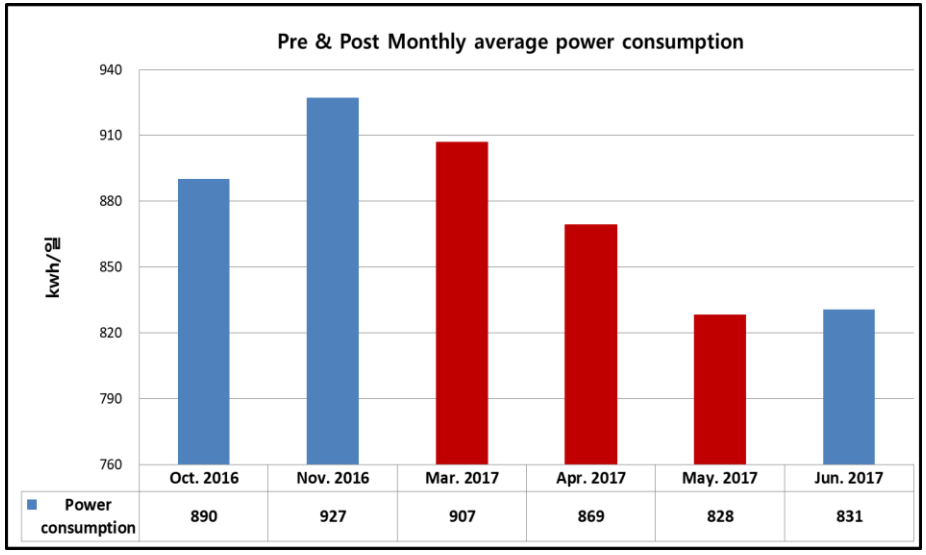


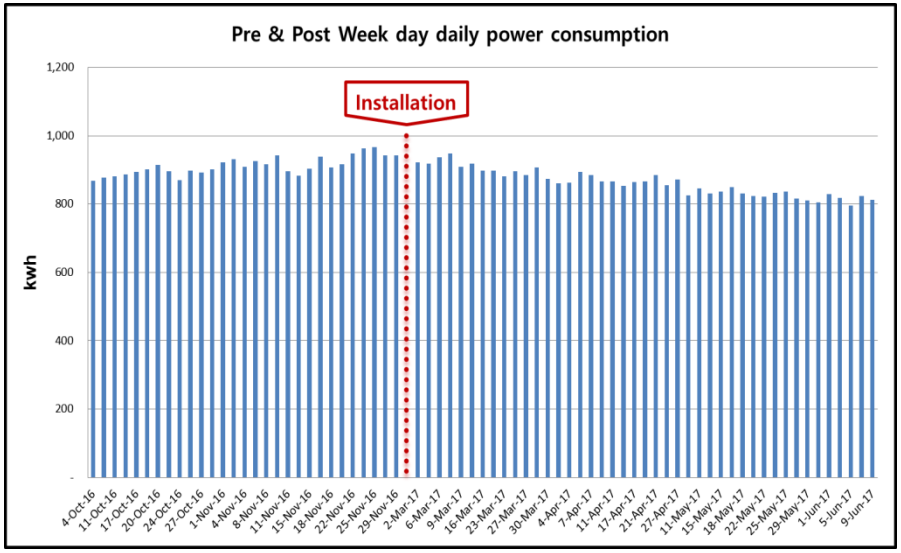
IX-2. Sales performance data (INFAC Co., LTD)

Project Summary

1. Major product : Electric parts for Automotive
2. Main Transformer : 1,000Kva
3. Test method to prove : individual load test
4. Graph of tested object : one of air compressor (HIOKI 3169)
5. Load connected: Air compressors, Assemble line
6. Save energy in average : 7.2% of total connected load



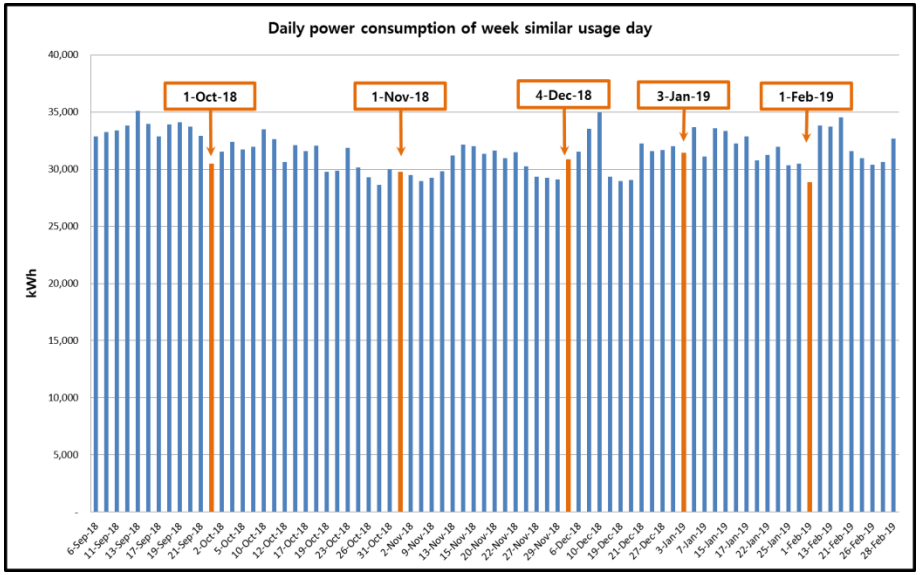




IX-2. Sales performance data (ILJIN Co., LTD)

Project Summary

1. Major product : Mechanic parts including bearing for Automotive
2. Main Transformer : 2,000kVA
3. Test method to prove : individual load test
4. Graph of tested object : 500kVA air compressor (HIOKI 3169)
5. Load connected: Air compressors
6. Save energy in average : 5.1~6.5% of total connected load



		Pre	Saturation	Post			
Date		`18.9/6~23	`18.10/1~31	`18.11/1~30	`18.12/1~31	`19.1/1~31	`19.2/1~28
Similar usage of week day	Daily Ave. (kWh)	33,627	31,118	30,372	31,431	31,912	31,908
	Save Ratio (%)		- 7.5	- 9.7	- 6.5	- 5.1	-5.1

Harmonic Distortion: Problems and Solutions

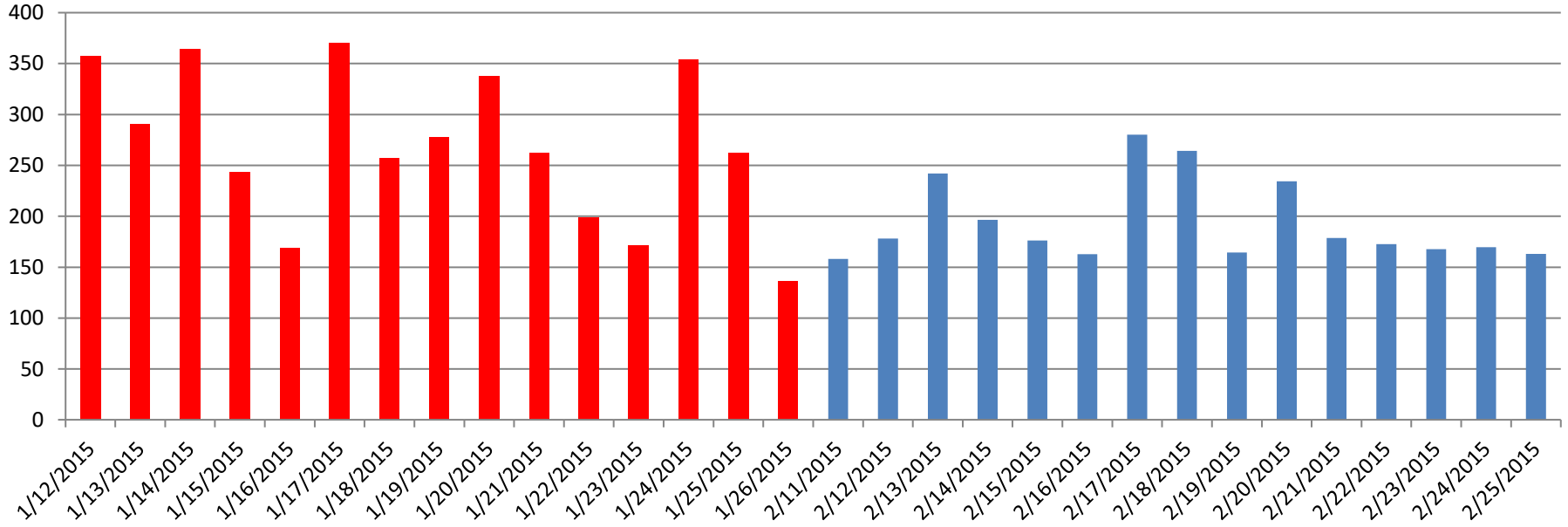
Power system problems that were associated with **harmonics began** to be of general concern in the **1970s**, when two ind ependent developments took place. The first was the oil embargo, which led to price increases in electricity and the mov e to save energy. Industrial consumers and utilities began to apply **power factor improvement capacitors**, Capacitors red uce MVA demand from the utility grid systems by supplying the reactive power portion of the load locally. As a result, los ses are reduced in the industrial plant and the utility network. The move to power factor improvement resulted in a signifi cant increase in the number of capacitors connected to power systems. As a consequence there has been an equally signif icant increase in the number of tuned circuits in plant and utility networks. The second involved the coming of age of low **voltage thyristor technology**. In the 1960s, thyristors **were developed for dc motor drives** and then extended to include adjustable-speed ac motor drives in the 1970s. This resulted in a proliferation of small, independently operated converter s usually without harmonic mitigation techniques employed.

American standards regarding harmonics have been laid out by the IEEE in the 519 Standard: IEEE Recommended Practice s and Requirements for Harmonic Control in Electric Power Systems. IEEE 519 recognizes not only the absolute level of ha rmonics produced by an individual source but also their size relative to the supply network.

Fortunately **harmonic distortion solutions** are available; however they vary in the technology, approach and cost. Many o f today's well established electrical device manufacturers offer **harmonic distortion filters**, they can be passive, active an d hybrid, these devices are normally only cost-effective for the largest of energy consumers. While harmonic distortion le vels can never be eliminated entirely it should be recognized that any reduction is beneficial in addition to the above men tioned technologies **there is another device: FORCE** Energy Saving System. FORCE is **a very cost effective and well establi shed** type of harmonic distortion reduction technology which was **developed in Korea**, fully patented, lab proven, safety t ested and used by many customers worldwide.

FORCE mitigates harmonic distortion by introducing a current waveform into your system and correcting the compromise d current harmonic waveform. **FORCE has a Tourmaline (mineral based)** composition which has been known since the 18 00's **to be piezo and pyro** electric in nature, just as a magnet attracts, a diamond shines and uranium radiates**. In fact the US government used this composition to reduce harmonic distortion in radio transmitters during world war I.**

Max THD, before and after FORCE Installation



1. **The above chart depicts Maximum harmonic distortion (HD) both before and after FORCE was installed, an apparent reduction can be observed.**
2. **While no HD mitigation product can completely eliminate HD, any reduction will lead to better power quality, less wear and tear on equipment and reduced energy consumption.**
3. **After FORCE was installed a noticeable reduction in HD can be observed. <u>The Overall Maximum HD reduction rate was nearly 30%.</u>**

X. Installation Performance List (Government Office in Korea)

Company	Area	Capacity	Saving Ratio	Deliver Date
Pohang City Hall	Pohang City	900		Jun-2012
Cheongsong City Hall	Cheongsong City	200 / 300	7%	Jan-2014
Ahndong city Hall	Ahndong City	600		Jan-2015
Kunwy City Hall	Kunwy City	400 / 300		Jun-2015
Euseong City Hall	Euseong City	300 / 300	10%	Jul-2015
Relax RM for old man	Cheongsong City	5kva x 120set		Nov-14~Aug-15
Ahndong Auditorium	Ahndong City	300		Sep-2015
Cheongsong Medical Center	Cheongsong City	600		Jan-2016
Tech. Center of Agriculture	Cheongsong City	350		Feb-2016
Ahndong convention center	Ahndong City	100		Mar-2016
Tech. Center of Agriculture	Ahndong City	500		Apr-2016
Ahndong Medical Center	Ahndong City	300		May-2016
District office of Seoul city	Seoul city	500		Aug-2016

X. Installation Performance List (Government Office in Korea)

Company	Area	Capacity	Saving Ratio	Deliver Date
Distribution Center of Agricultural Products	Cheongsong City	700		Feb-2017
Small District office	Cheongsong City (18 places)			Feb-2017
General Convention Center	Cheongsong City	200		May-2017
Agricultural Association	AhnDong City	1,000	8~15%	Jul-16~May-17
Small District Office	AhnDong City (23 places)			Sep-2017
Military office(HQ)	Seoul City	300 / 300	8.7~9.8%	Jan-2018
Kumi City Hall	KuMi City	1,000		Jan-2018
Bonghwa City Hall	Bonghwa City	300		Jan2018

X. Installation Performance List (Domestic in Korea)

Company	Area	Capacity	Saving Ratio	Deliver Date
Poong Kuk Noodle	Dae Ku	500	5%	Jul-2009
Lottteria	Ku Mi	75		Jul-2009
Sehwa Precision	In Cheon	300		Apr-2009
ILSHIN Metal	An San	2,670	11.33%	Nov-2008
Seon Su High School	Seoul	500	7%	Nov-2008
Elecom(Switch Board)	Government	3,000		Prior Deliver co.
Yuhan-kimberly	Chung Ju	5,000	5%	
AT Distribution center for agricultural product	Seoul	500		Mar-2017
Kyeong Hee Medical center	Seoul	3,000	5%	Mar-2015
Posco	Po hang	10,250	5.8~8.7%	Aug2011
Posco cold mill	Po Hang	300	5%	

X. Installation Performance List (Domestic in Korea)

Company	Area	Capacity	Saving Ratio	Deliver Date
ILyang Metal	Keum San	700	9%	
SK Networks	Seong Nam	200	7.23%	Jan-2013
Im Cheon Industrial	Keo Je	1,200	10%	
Odduki	Eum Seong	6,900	7% ↑ up	Aug-2012
Odduki	An Yang	1,950		
Odduki	Pyeong Taek	1,150		
Odduki SF	Keo Je	2,500		
Odduki	An San	750		
Odduki Center	Seoul	300		
Woo Shim Medical device	Pa Ju	500	7%	
Henkel	Cheon An	700	7%	
DYM	Cheon An	1,700	7%	

X. Installation Performance List (China)

Company	Area	Capacity	Saving Ratio	Deliver Date
China Mobile	China	10 ~ 20kva x 150set	14.6%	Oct-2009 ~
江苏琦衡农化科技有限公司	China	500		
连云港派瑞化工有限公司	China	400		
江西贝仕达实业有限公司	China	400		
中国农业银行山东支行	China	500		
菏泽首创水务有限公司	China	600		
奥仕集团有限公司	China	480		
江苏振方生物化学有限公司	China	2,200		
江苏长海化工有限公司	China	3,000		
浙江传化精细桥南工程	China	1,310		

X. Installation Performance List (Japan)

Company	Area	Capacity	Saving Ratio	Deliver Date
Busa Steel	Tokyo		6%	
Broadband tower	Tokyo		5%	
hruna	Japan		6.3%	
フジテック(Fujitek)	Japan		8.39%	
Nippone plated	Japan		5~8%	
Cho Il industry	Japan		5~8%	
Seo San factory	Japan		5~8%	
Yak Song	Japan		5~8%	
トリックス	Japan		5~7.5%	
マルサン	Japan		8~10%	
nishiyama	Japan		7%	

X. Installation Performance List (Japan)

Company	Area	Capacity	Saving Ratio	Deliver Date
Posco JEPC	Toyo Hasi		11.1%	
Shin Il	Nagoya		11.68%	
アルプススチール	Nagoya		14.6%	
Samco	Tokyo		5~8%	
Myeong Dongメタル	Japan		5~6%	
カミゼン	Japan		6~8%	
Prince paper Mill(OJI paper)	Japan		10~15%	
イツワCoperation	Japan		5~7%	
クラーレ(Kuraray)	Osaka		4~6%	