A leader in green growth High eco-friendly generators

SUNTECH

Republic of Korea's first two new certification areas, NEP



International Patents, Award

- INPEX 2007, Pittsburgh, USA(environmental, Engineering) Gold medal
- Taipei International invention Show& Technomart, 2007 Special Award
- Nurnberg International Invention Show, Germany Gold Prize
- Geneval International Invention Show Gold Prize (New Technology)
- Europe Union CE Certification
- ISO 9001. ISO 14001



COMPANY HISTORY

2015 Lsted onthe KONEX
Employee Stock Ownership

2014 Selected as Pre-World Class company
Delivered SMG-1.5kW(70ea) & 10kW(48ea) to Korea-Defense Acquisition Program Administration

2013 Award Presidential prize in Application of New Technology
Delivered SGA-2000kW(6600V, three-parallel)to Korea-Expressway Corporation Research Institute
Delivered SMG-1.5kW(93ea) & 10kW(26ea) to Korea-Defense Acquisition Program Administration

2012 Approved the extension of validating date for NEP (New Excellent Product) certificate (NEP-MOCIE-2007-023)
Certified as the world class product.
Delivered SMG-1.5kW(87ea) & 10kW(68ea) to Korea-Defense Acquisition Program Administration

2011 Be selected as a promising company by Government
Registed “EQ” [Group Standard product certification]

2010 Registerd a international patent (Rotator of generator and motor)

2009 Be selected as a promising exporter

2008 Won the gold prize at 2008 Geneva international invention, New Technology and New Product Exhibition

2007 Won the certificate of 2007 excellent product from public procument service - Highly efficient self-diagnosis precision synchronous generator
Won a priae at 2007 international invention exhibition, Nurnberg, Germany

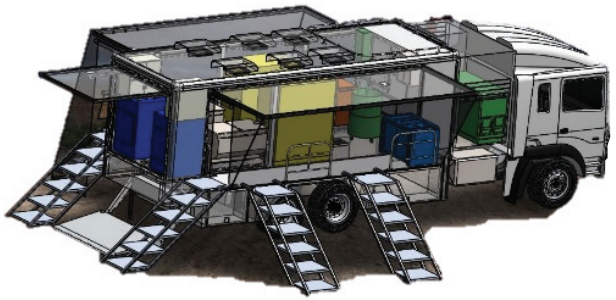
2006 Won a prize from the minister of commerce, Industry and energy (Developed a highly efficient generator by use of a permanent magnet)
Registered a new device (stator of generator and motor 20-0420 759)
Registered a patent (Rotor of generator and motor 10-059791)

2005 Be selected as an excellent technical company (KIBO Fund)
Be selected as a venture company (Ref. No. 051425232-1-00085)
Be selected as a promising exporter

1999 Be incoporated into Suntech Co., Ltd
Korea Electrical Manufactures Cooperative

1990 Founded Sun-Tech Generator

PRODUCT FEATURE



1. It is compact and convenient for mobility because of no Exciter and AVR.
   It has been developed as onboard vehicle many times.

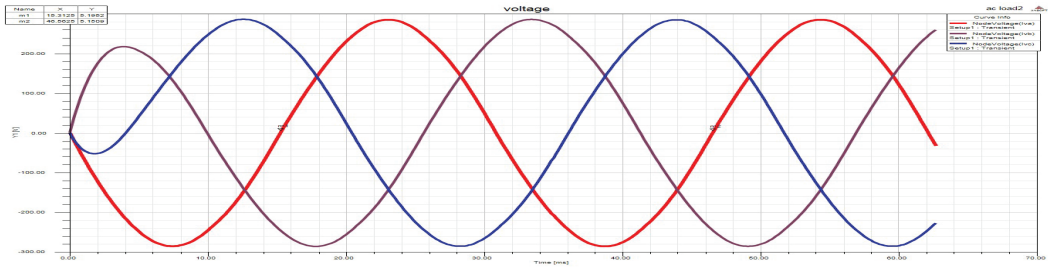




2. The rotor is not damaged by lightening & inrush current.
   As optimal case design minimizes external environment factors & noise, it is very conformity to military goods.

Power(kW)	1.5kW		10kW		15kW		50kW	
Type	SMG (1.5K)	Wound rotor	SMG (10K)	Wound rotor	SMG (15K)	Wound rotor	SMG (50K)	Wound rotor
Efficiency(%)	90%	77%	95%	77%	96.5	77%	98%	83.4%
Fuel consumption(gal/hr)	0.16	0.2	0.9	1.07	1.24	1.55	4.21	4.94
Expense per year ($, 1h/day/year)	164	203	933	1114	1282	1607	4360	5123

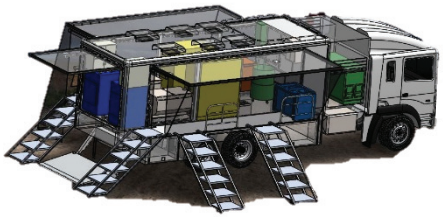
3. Low fuel consumption due to high efficiency, SMG is semi-permanent use.



4. High quality electricity of pure sine wave improves the performance of equipment and can extend life of use

CAPABILITY OF DEVELOPMENT

ACCUMULATED TECHNICAL SKILLS

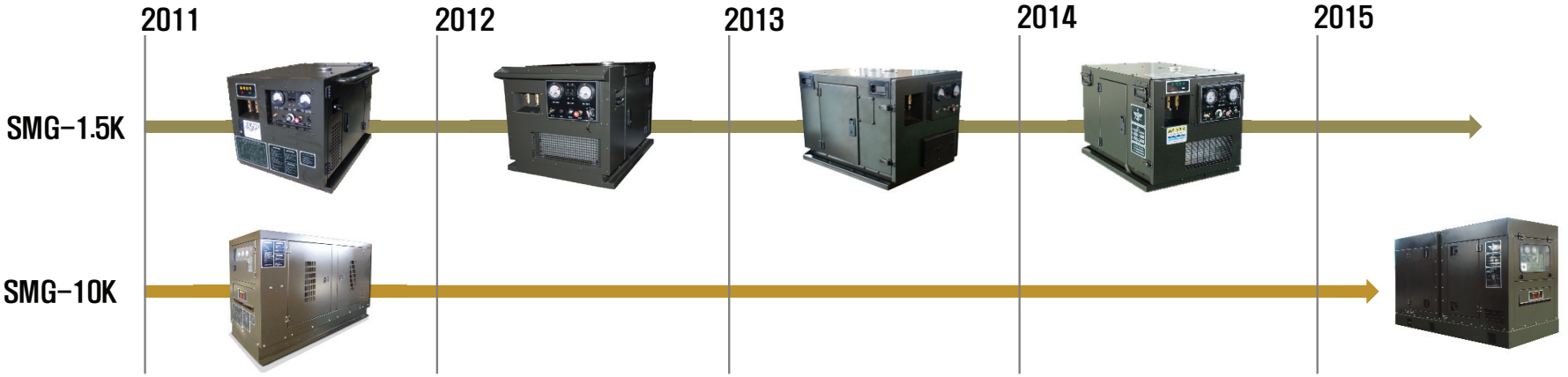





We have development know-how for various kinds of generator, onboard vehicle, Vulcan battery charger, command post vehicle and it satisfies the performance requirements of the source of demand.

CONTINUOUS DEVELOPMENT

We reduce the size, weight and noise by continuing improvement and it makes operation more convenient for users.



PRODUCT LIST



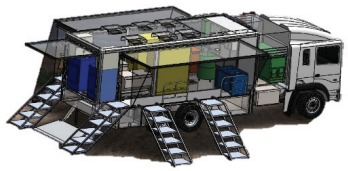
USE	OUTPUT	VOLTAGE	EFFICIENCY	NOISE	WEIGHT	SIZE(L×W×H)
VULCAN BATTERY CHARGER	1.5kW	28VDC	90%	65dB	68kg	680×515×480

- Delivered 409 units to ARMY & AIR FORCE. The first soundproof type of 1.5kW for military goods



USE	OUTPUT	VOLTAGE	EFFICIENCY	NOISE	WEIGHT	SIZE(L×W×H)
POWER SUPPLY FOR FIELD BATTLE	10kW	220/380V	95%	65dB	670kg	1550×700×1100

- Delivered 325 units to ARMY & the MARINE Corps.
- Selected as the best generator in 2011 by Defense Acquisition Program Administration.



USE	OUTPUT	VOLTAGE	EFFICIENCY	NOISE	WEIGHT	SIZE(L×W×H)
POWER SUPPLY FOR MOBILITY	15kW	220/380V	96.5%	65dB	680kg	1540×960×2000

- ARMY force support system department is researching and developing.



USE	OUTPUT	VOLTAGE	EFFICIENCY	NOISE	WEIGHT	SIZE(L×W×H)
POWER SUPPLY FOR RADAR VEHICLE	50kW	220/380V	98%	68dB	1235kg	1900×950×1350

- Researching and Developing with LIG NEX 1.



USE	OUTPUT	VOLTAGE	EFFICIENCY	NOISE	WEIGHT	SIZE(L×W×H)
POWER SUPPLY FOR RADAR VEHICLE	80kW	220/380V	98%	69dB	2000kg	2400×900×1550

- Researching and Developing with LIG NEX 1.

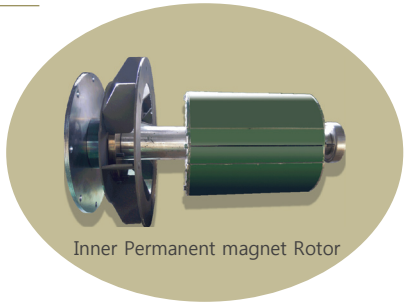
INDUSTRIAL PROPERTY RIGHT

PATENT FOR PERMANENT MAGNET GENERATOR

Generator and rotor of motor (1005971910000) & 4 cases in Korea
Rotary device of generator or motor (07834505) & 4 cases (USA, JAPAN, EU, CHINA)

PATENT FOR SELF-DIAGNOSTIC SYNCHRONOUS GENERATOR

Generator (1007583850000) & 3 cases



Inner Permanent magnet Rotor

CERTIFICATIONS





NEP (NEW EXCELLENT PRODUCT)
CERTIFICATIONS (2)



DEFENSE QUALITY
(SMG-1.5K, SMG-10K)



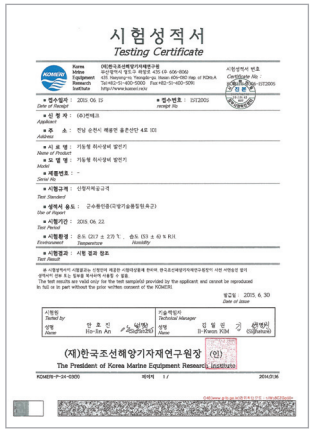
EXCELLENT PRODUCT
(PUBLIC PROCUREMENT SERVICE)



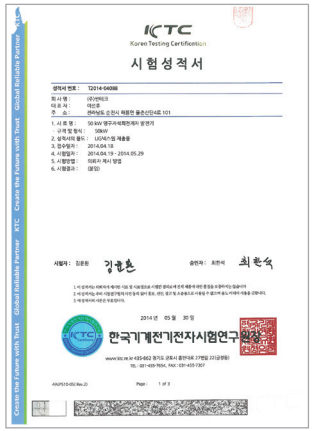
2012 WORLD CLASS PRODUCT

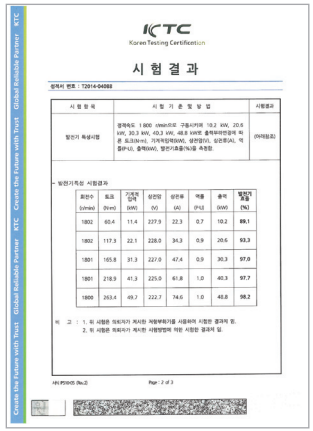
PERFORMANCE TEST REPORTS

EFFICIENCY TEST REPORTS



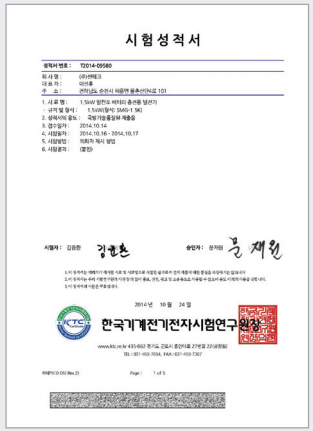
15kW (96.5%)

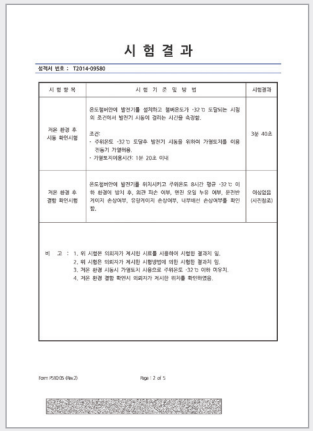




50kW (98.2%)

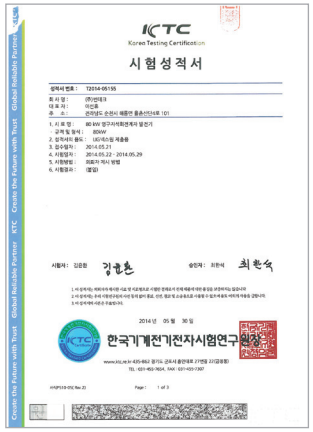
ENVIRONMENT TEST REPORTS

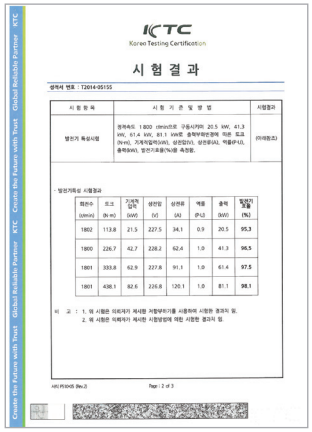




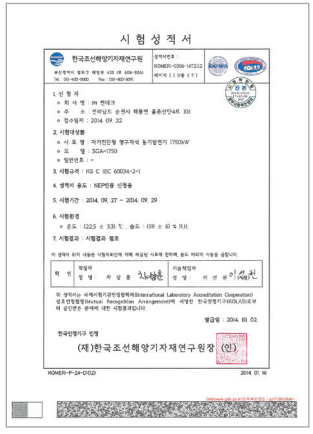


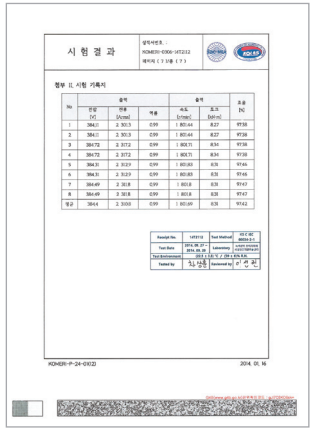
LOW TEMPERATURE TEST REPORT SMG-1.5K
(Low temperature starting and check defect)



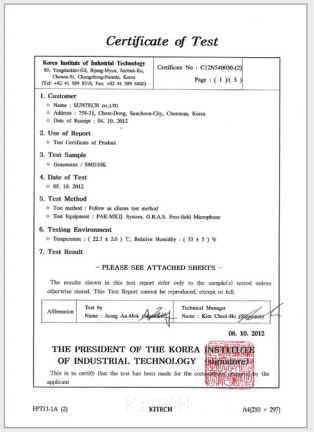


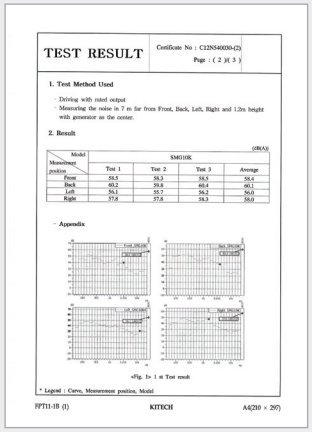
80kW (98.1%)





1750kW (97.42%)





NOISE TEST REPORT SMG-10(58.1dB)

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