EMERGENCY GENERATOR





http://www.gpckorea.com

About GPC

Green Power Corporation

Since our establishment in 2002, GPC has worked with endless effort to realize innovations in management to lead the industry with new technologies and products. GPC has become the world's No.1 Emergency Generator manufacturer and demonstrated boundless imagination and technical capability in marine emergency generator sets.

All GPC Members are creating the world's best products and services and are constantly pursuing innovations and challenges with the pride as contributors to industrial development and society.

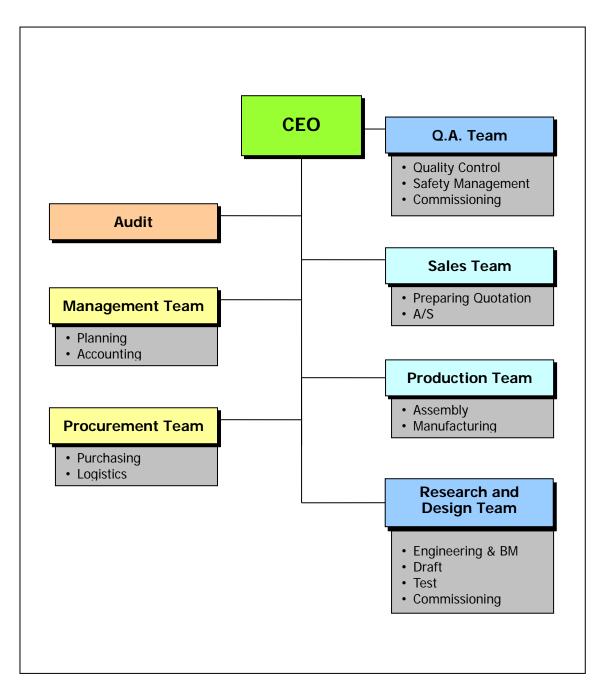
We ask for your continuous support in our efforts to deliver the best technology and products for our customers.



History

2002.08	Establishment
2002.11	Vendor of Daewoo Shipbuilding Marine Engineering Co.
2004.05	Vendor of Hyundai Mipo Dockyard, Samsung Heavy Industries
2005.02	Vendor of Hyundai Heavy Industries Co.
2006.10	Production of Emergency Gen-Set for LNG Ship for SHI
2007.05	Production of Dead Ship Gen-Set for Drill-rig
2007.09	Relocated Plant & Office to GIMHAE Jinyeong
2008.06	New Line-up with Doosan Infracore Marine Diesel Engine
2008.12	Delivery of Emergency Gen-Set to Japanese shipyard
2009.06	Development of Digital Type Control Panel for Emergency Gen-Set
2010.05	Delivery of VSP Gen-Set Package for WHRP Platform
2011.05	Approval of Japanese Government Regulation for Car/Ferry Vessel
2012.06	Delivery of Harbour Gen-Set with MAN D2842 Engines
2012.12	Awarded "World Class Product of Korea" by Korean Government
2013.07	New Line-up with MTU Marine Diesel Engine
2014.12	Delivery of 1,100kW(RMRS) Emergency Gen-Set for Arctic LNG Carrier
2015.04	Delivery of MTU Model Remote Radiator Type Gen-Set
2017.03	Awarded "Small Giant Company Korea 2017" by Korean Government
2018.01	New Line-up with WEICHAI Diesel Engine for below 100kW Gen-set
2019.11	Relocated Plant & Office to GIMHAE Jillye

Organization

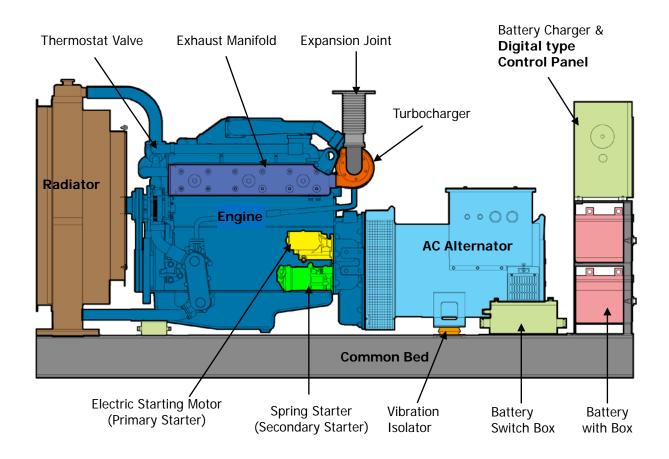


• Office Main Number: +82-55-343-9870

Sales Team - Korean Market : +82-55-343-9874 Sales Team - Overseas Market : +82-55-343-9878

Q.A Team: +82-70-5056-6464

Outline of Emergency Generator





Emergency Generator Set (150kW, 60Hz)



Digital Type Control Panel

Characteristics of Emergency Generator

Special Requirements for Emergency Generator

- PRIME MOVER
 - Marine Prime Rating
 - High Speed Diesel Engine
 - Variety of Options
- DUAL STARTING SYSTEM
- AUTHORIZED CLASS SOCIETY CERTIFICATION
- TECHNICAL DOCUMENT
 - Discussion / Approval / Working / Final Drawing



PROFESSIONAL ENGINEERING COMPANY



- CUSTOMER ORIENTED
- DEVELOPING PROJECT EXECUTION
 - On time
 - Meet Budget
- CUSTOMER ACCEPTANCE AND FEED-BACK SYSTEM
- ACTIVE QUALITY AND PROCESS
 - Improvement System

Specification of Generators

Powered by DOOSAN INFRACORE Engines

Emergency Generator Set

Gen-Set	Diesel Engine		Dimension	
Ratings (kW)	Model	Output (kW)	L x W x H (mm)	Weight (kg)
100 ~ 125	AD136TI	138	2,750×950×1,450	1,700
126 ~ 165	AD086TI	186	2,910×950×1,550	2,000
166 ~ 220	AD126TI	247	3,300×1,150×1,550	2,550
221 ~ 270	4AD126TI	302	3,400×1,150×1,600	2,800
271 ~ 320	AD158TI	353	3,450×1,400×1,800	3,200
321 ~ 400	AD180TI	441	3,500×1,400×1,850	4,000
401 ~ 500	AD222TI	530	3,800×1,400×1,950	4,450

Powered by WEICHAI Engines

Emergency Generator Set

Gen-Set	Diesel Engine		Dimension	
Ratings (kW)	Model	Output (kW)	L x W x H (mm)	Weight (kg)
30 ~ 40	WP4CD55E201	50	2,300×900×1,400	1,250
41 ~ 50	WP4CD66E201	60	2,300×900×1,400	1,250
51 ~ 80	WP4CD100E201	90	2,400×900×1,400	1,300

 ⁶⁰Hz, 1,800rpm, AC450V, IP23, Insulation Class "H" with Temperature Rise Class "F"

Specification of Generators

Powered by Mitsubishi Engines

Emergency Generator Set

Gen-Set	Diesel Engine		Dimension	
Ratings (kW)	Model	Output (kW)	L x W x H (mm)	Weight (kg)
500 ~ 570	S6R-MPTAW	635	4,600 x 1,800 x 2,500	5,800
571 ~ 760	S12A2-MPTAW	828	5,500 x 1,900 x 2,700	7,500
761 ~ 1,150	S12R-MPTAW	1,270	5,600 x 2,200 x 2,700	11,300
1,151 ~ 1,550	S16R-MPTAW	1,690	6,500 x 2,200 x 2,900	15,500

Powered by MTU Engines

Emergency Generator Set

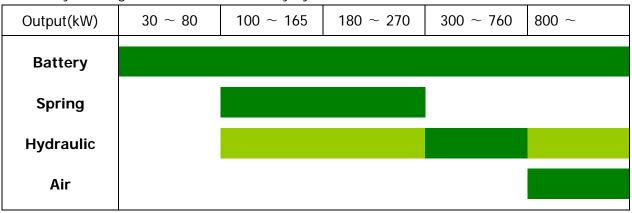
Gen-Set	Diesel Engine		Dimension	
Ratings (kW)	Model	Output (kW)	L x W x H (mm)	Weight (kg)
500 ~ 630	12V 2000 P82	695	4,450×2,100×2,650	6,600
631 ~ 850	16V 2000 P82	930	5,100×2,450×3,150	8,500
851 ~ 1,500	12V 4000 P83	1,680	6,400×3,800×2,750	13,800
1,501 ~ 1,950	16V 4000 P83	2,240	6,650×3,800×2,750	15,500
1,951 ~ 2,500	20V 4000 P83	2,800	8,500×3,800×3,600	21,200

60Hz, 1,800rpm, AC450V, IP23, Insulation Class "H"
with Temperature Rise Class "F"

Option Parts of Generator Set

Secondary Starting System

Primary Starting Method : Electric Battery System



Maker Standard

Maker Option



<Spring Starter>



< Hydraulic Starter - Prestolite type>



< Hydraulic Starter - Hydrotor type >

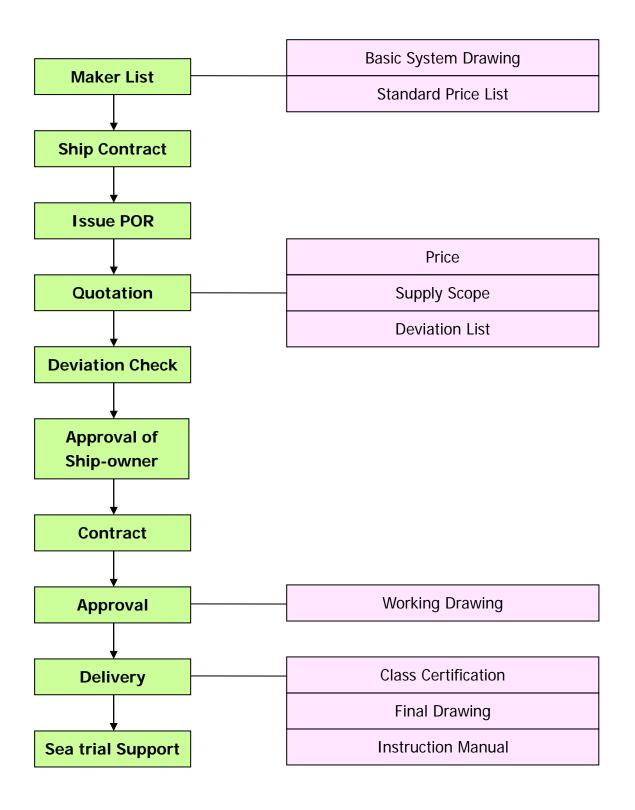


<Compressed Air Starter>

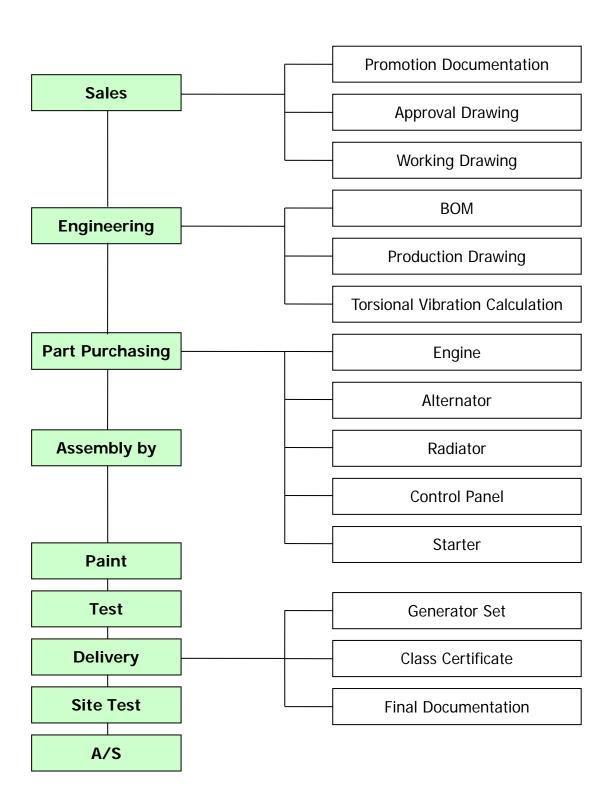
Suppliers of Parts

Unit Name	Supplier	Remarks
Diesel Engine	DOOSAN INFRACORE MITSUBISHI MTU WEICHAI	KOREA JAPAN GER CHINA
Alternator	NIDEC LEROY SOMER CUMMINS GENERATOR	JAPAN UK
Hydraulic Starting	PRESTOLITE KTI IPU GALI	UK USA UK SPAIN
Air Starting	TDI IPU GALI Ingasol Rand	USA UK SPAIN USA
Spring Starting	STARTWELL	UK
Vibration Isolator	TRELLEBORG	UK
Control Panel	KMC	KOREA
Radiator	DAEHEUNG RADIATOR	KOREA
Common Bed	DOOSUNG	KOREA

Business Procedure



Production Process



Facility



1. Facility Site 5,289 m²

Workshop & Test area 2,696 m²

Office : 690 m²

2. Lift Capacity : 30 ton Crane, 10 ton Crane

3. Test Equipment 6 Sets

3.1 Control Panel & Resistor Load Bank: Total 3,800kW

3.2 Temperature and Pressure Alarm Tester

3.3 Graphic Recorder for Governor Test, Vibrationmeter etc.

4. Assembly : Torque Wrench etc

5. Paint Booth : 150 m²

6. Production Capacity : 1,200 Sets / year

7. ISO Certificate : ISO9001 since 2003

8. Address

#164 Techno valley 1-ro, Jillye-myeon, Gimhae, Gyeongnam, Korea Tel: +82 55 343 9870, Fax: +82 55 343 9875, E-mail: gpc@korea.com

Suggestions

ACTIVITY OF GPC

- SATISFYING TO EXPECTATIONS OF CUSTOMERS
- MORE COMPACT SIZE
- VARIETY OF OPTIONS
- MINIMUM OVER-HEAD COST

THE WORLD RENOWNED

EMERGENCY GENERATOR MANUFACTURE

ADVANTAGES OF PURCHASE

- EMERGENCY GENERATOR SET AT REASONABLE PRICE
- SAVING LABOR FROM STANDARDIZATION
- JUST ON TIME