

Changing the world, Challenging the impossible!

## **Total Engineering Service**

Switchgear For Onshore Plant

Switchboard For Marine Vessel

Control Console



New Chapter with all our Passion!

**DONGYANG**  
**INDUSTRIES ELECTRIC CO., LTD.**

[www.e-dy.com](http://www.e-dy.com)

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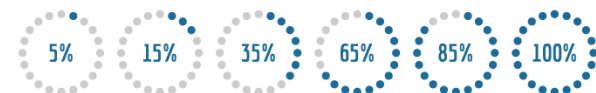
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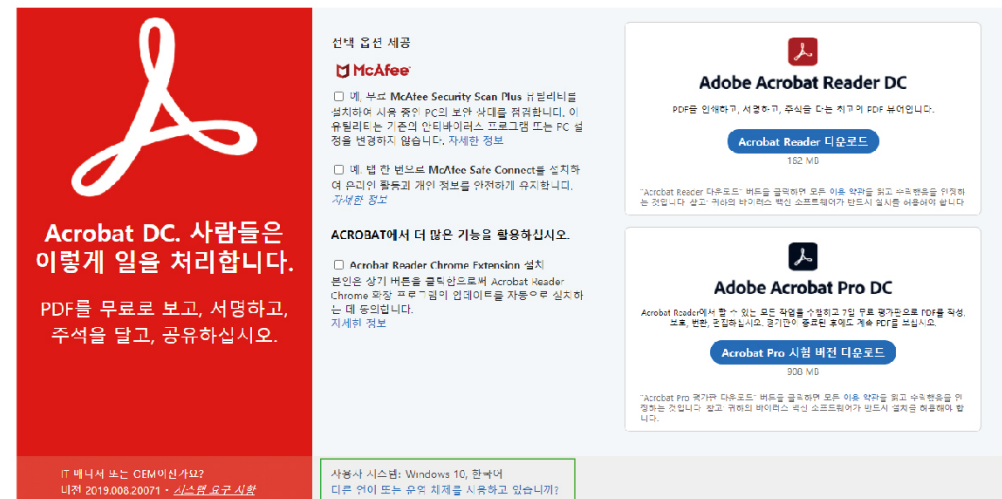


<https://get.adobe.com/kr/reader/otherversions/>



01

Are you using a different language  
or operating system? **Selection**

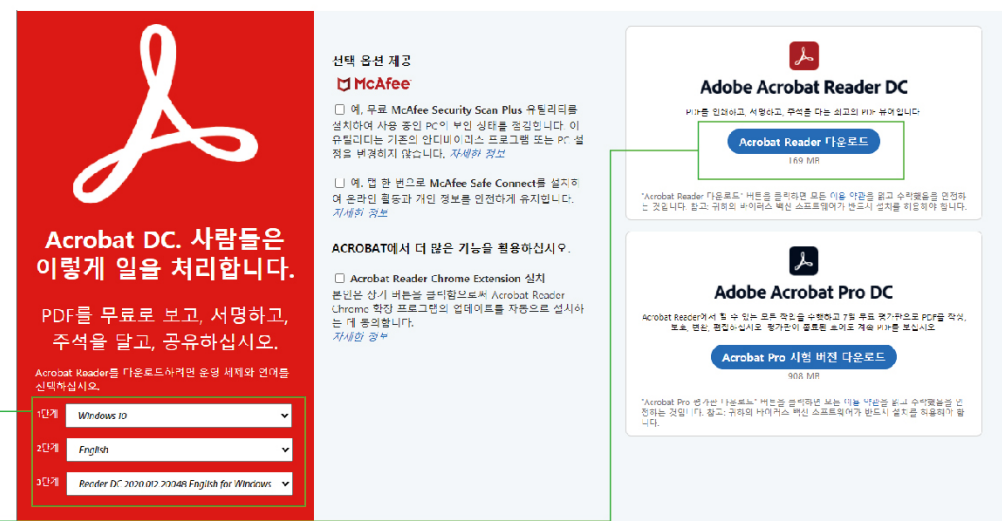


02

- Step 1 Select an operating system
- Step 2 Select **English**
- Step 3 Select **2020 version**

※ 국문 사용 시 프로그램 다운로드/설치 후  
프로그램 상단 도움말-업데이트확인 클릭  
**최신버전(2020년)으로 업데이트를**  
반드시 하여야합니다. (3회 이상)

Download and install program



**When the Video(PV) is black,**

Download Reader DC 2020.012.20048 or help - check for updates and update to the latest version!



**When the Video(PV) sounds,  
but the screen only shows  
green wavelengths,**

If the system environment is Windows 10, open the reader DC program, press Ctrl+K (default setting), then unlock the security (Advanced) - Sandbox Protection - Enable Protected Mode (M) at startup, close and reopen the program, and the video(PV) will function normally.



# CONTENTS



CEO Message, Promotional Video

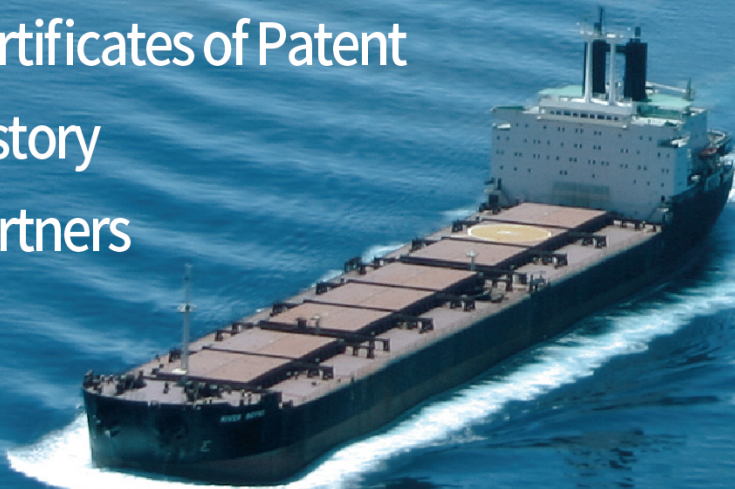
VISION, Aerial View

Business Area

Certificates of Patent

History

Partners



## 01 Products & Service

HV/MV Switchgear For Onshore Plant

MCC and LCS For Onshore Plant

LV Switchboard For Marine Vessel

EM'CY Switchboard For Marine Vessel

Group Starter Panel For Marine Vessel

Bow Thruster Starter For Marine Vessel

MCC For Marine Vessel

Cargo MCC For LPG, LNG Vessel

## 02 Products & Service

Engine Control Console

Bridge Control Console

## 03 Products & Service

MV Switchboard (DONGYANG Developed)

LV Main Switchboard (DONGYANG Developed)

Group Starter Panel (DONGYANG Developed)

Bow Thruster Starter (DONGYANG Developed)

[www.e-dy.com](http://www.e-dy.com)

**STAYING ONE STEP AHEAD GLOBAL LEADER, DONGYANG**

All DONGYANG employees are unified by their passion and commitment!

We will continually strive to take our business to the next level.





# Promotional Video

Check out the vision of DONGYANG Industries Electric Co., Ltd. to share the future!

[Click here to check out the high-resolution video!](#)

## CEO Greetings

DONGYANG has been manufacturing various kinds of Switchboards and distribution boards including MCC, MSBD, ESBD, GSP and consoles etc. for Marine and Onshore since 1988. And we're expanding our business to offshore area. We also provide professional resources in design, construction, QA&QC and commissioning. Our R&D department has constantly performed various tasks such as obtaining patents and quality certificates as well as localization of equipment. DONGYANG will rapidly respond to the changes and opportunities in the market to meet customer demands.

*Sincerely Yours*

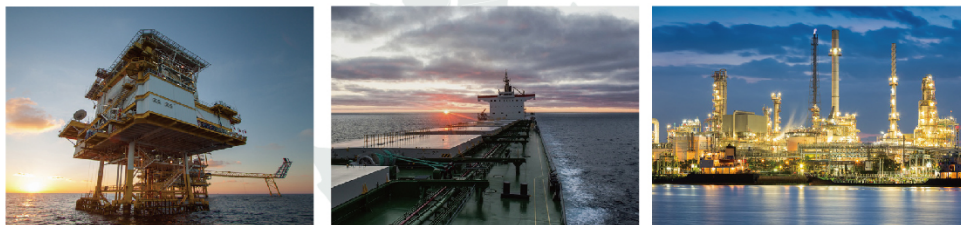
**David Park. CEO**





# STAYING ONE STEP AHEAD GLOBAL LEADER, DONGYANG

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- BRANCH OFFICE(GEOJE)**  
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Click on the address to connect to Google Map







## ONSHORE / MARINE

DONGYANG INDUSTRIES ELECTRIC CO LTD. produces exceptional products based on its more than 30 years of expertise on incoming and distributing panels.

Our long-established experience and solid relationships with customers come from our excellent products, ease of communication and broad services. DONGYANG will always be here for future generations of employees, customers and offshore technologies.

### Switchgear For Onshore Plant

### Switchboard For Marine Vessel

### Control Console





# HV/MV Switchgear For Onshore Plant

## Standard

1. Switchgear according to the IEC 62271-200
2. Degree of Protection followed the IEC 60529, IP42

## Electric Characteristics

1. Rated Voltage: 24kV
2. Normal Current: up to 3,150A
3. Short-Circuit with Stand Current: up to 31.5kA



Click here to check out further information!

[http://www.e-dy.com/V1/bbs/page.php?pageNm=kr\\_pr03](http://www.e-dy.com/V1/bbs/page.php?pageNm=kr_pr03)



# MCC and LCS For Onshore Plant

## Standard

1. Switchgear according to the IEC 62271-200
2. Degree of Protection followed the IEC 60529, IP42

## Electric Characteristics

1. Rated Voltage: 690kV
2. Normal Current
  - Horizontal Busbar: up to 400A
  - Vertical Busbar: 650A, 850A
3. Short Circuit with Stand Current
  - Horizontal Busbar: up to 83kA
  - Vertical Busbar: up to 65kA



## Main Electrical Specification

Degree of Protection followed the IEC 60529: up to IP66

## ENCLOSURE

1. Material: Stainless steel 316
2. Component: Weather proof box, Sun shade, Stanchion



## LV Switchboard For Marine Vessel



### Main Electrical Specification

Input AC 690~110V, 3W, 3 Phase

### Degree of Protection

IP = 22 From Design to Fabrication



[Click here to check out further information!](#)

## EM'CY Switchboard For Marine Vessel



### Main Electrical Specification

Input AC 690~110V , 3W, 3 Phase

### Degree of Protection

IP = 22, 44 From Design to Fabrication



# Group Starter Panel For Marine Vessel



## Main Electrical Specification

Input AC 690~110V , 3W, 3 Phase

## Degree of Protection

IP = 22 From Design to Fabrication



[Click here to check out further information!](#)

# Bow Thruster Srarter For Marine Vessel



## Main Electrical Specification

AC 6600/3300/440V, 3W, 3 Phase

## Degree of Protection

IP = 44 From Design to Fabrication





# MCC For Marine Vessel

## Main Electrical Specification

Input AC 690~110V, 3W, 3 Phase  
Output 600~5000A or Above

## Degree of Protection

IP = 22 From Design to Fabrication

## Recent Record

| No. | Client          | Project              | Remark                  |
|-----|-----------------|----------------------|-------------------------|
| 1   | Seadrill        | HSHI S672            | Semi-sub, Drilling unit |
| 2   | DSME            | SHWE                 |                         |
| 3   | DSME            | H3402 HEEREMA        | Pipe layer              |
| 4   | DIAMOND         | H2503~4,H2512, H2622 | Drillship               |
| 5   | NOBLE           | H2505~8              | Drillship               |
| 6   | ROWAN           | H2559/60/63/64       | Drillship               |
| 7   | DolphinDrilling | H2620                | Drilling Rig            |





# Cargo MCC For LPG, LNG Vessel

## Main Electrical Specification

Input    AC 690~110V, 3W, 3 Phase  
Output   600~5000A or Above

## Degree of Protection

IP = 22    From Design to Fabrication

## Recent Record

| Year | Amount (Vessels) | Remark |
|------|------------------|--------|
| 2019 | 18               |        |
| 2018 | 7                |        |
| 2017 | 16               |        |
| 2016 | 15               |        |
| 2015 | 16               |        |





## Engine Control Console



### Main Electrical Specification

Input AC 220V, 3 Phase

### Degree of Protection

IP = 22 From Design to Fabrication



[Click here to check out further information!](#)

## Bridge Control Console



### Main Electrical Specification

Input AC 220V , 3W, 3 Phase

### Degree of Protection

IP = 22 From Design to Fabrication



# MV Switchboard

## Standard

1. Switchboard according to the IEC 62271-1, 200
2. Degree of Protection : IP33

## Electric Characteristics

1. Rated voltage/current : 7.2kV, 1250A
2. Rated frequency : 50/60 Hz
3. Rated short time withstand current : 25 kA / 2 sec
4. Rated peak withstand current : 65 kA
5. Rated lighting impulse withstand voltage : 60kV
6. Power frequency withstand voltage : 20kV
7. Internal arc certificate : AFLR, 25kA, 1s



Performance Test Report  
: Metal-Enclosed Switchgear and Controlgear



Type Test Certificate of  
Internal Arc Performance  
: Three-phase metal-enclosed switchgear  
& Controlgear with withdrawable vacuum circuit-breaker





# LV Main Switchboard

## Standard

1. Switchboard according to the IEC 61439-1, 2
2. Degree of protection : IP22

## Electric Characteristics

1. Rated voltage/current : 440V, 2500A
2. Rated frequency : 60HZ
3. Rated insulation level
  - 1) Power frequency withstand voltage : 8kV
  - 2) Impulse withstand voltage : 12kV(MSBD incoming), 8kV(MSBD feeder)
4. Rated short time current : 50kA 1sec



### Performance Test Report

: Low-voltage switchgear and controlgear assembly



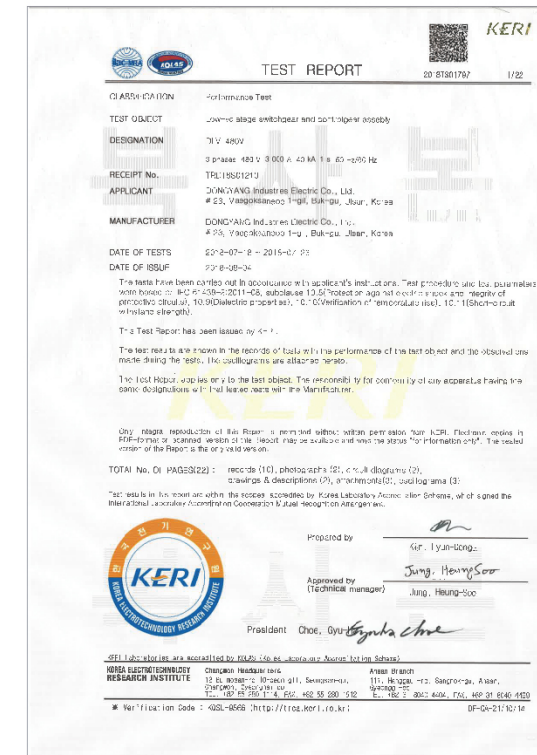
## Group Starter Panel

## Standard

1. Switchboard according to the IEC 61439-1, 2
2. Degree of protection : IP22

## Electric Characteristics

1. Rated voltage/current : 440V, 1300A
2. Rated frequency : 60HZ
3. Rated insulation level
  - 1) Power frequency withstand voltage : 8kV
  - 2) Impulse withstand voltage : 8kV
4. Rated short time current : 50kA 1sec



# Performance Test Report

## : Moto Control Center



# Bow Thruster Starter

## Standard

1. Switchboard according to the IEC 62271-1, 200
2. Degree of Protection : IP44

## Electric Characteristics

1. Rated voltage/current : 7.2kV, 300 A
2. Rated frequency : 50/60 Hz
3. Rated short time withstand current : 6.3 kA / 1 sec
4. Rated peak withstand current : 16.38 kA
5. Rated lighting impulse withstand voltage : 60kV
6. Power frequency withstand voltage : 20kV
7. Internal arc certificate : AFLR, 6.3kA, 0.5s



Performance Test Report  
: Metal-Enclosed Switchgear and Controlgear



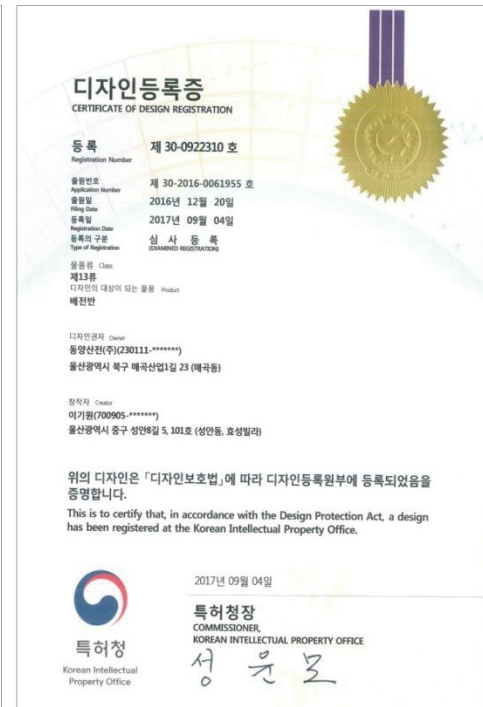
# DONGYANG WILL GO BEYOND KOREA TO THE WORLD TO BECOME A WORLD CLASS COMPANY



The R & D center of DONGYANG has performed diverse tasks since its establishment on June 24, 2008.

It has constantly invested in the acquisition of various kinds of patents and certificates

## Certificates of Patent





# History

**DONGYANG Industries Electric Co.**  
**has production experience of more than 30 years.**

We promise to provide world-class quality to our customers.

[www.e-dy.com](http://www.e-dy.com)

**STAYING ONE STEP AHEAD GLOBAL LEADER, DONGYANG**

All DONGYANG employees are unified by their passion and commitment!

We will continually strive to take our business to the next level.

## 1988~2006

- Established DONGYANG
- Registered as a subcontractor of HHI & HMD
- Incorporation DONGYANG Industries CO.,Ltd
- Moved factory(Dalcheon-dong, Buk-gu, Ulsan)
- Achieved ISO9001 Cert.

## 2007~2008

- Registered as a subcontractor of SHI
- Moved to current location
- Established Geo Je branch office
- Established R&D Dept.
- Achieved ISO14001, INNO BIZ Cert.

## 2009~2012

- Partnership agreement with Emerson Group SPX
- Registered as a subcontractor of DSME
- Partnership agreement with AEG Power Solution
- Partnership agreement with Schneider

## 2013~2015

- Three Million Dollar Export Award from President
- Achieved OHSAS18001 Cert.
- Partnership agreement with ExxonMobil
- Partnership agreement with ABB
- Established DONGYANG ENGINEERING
- Established DONGYANG Vina
- Five Million Dollar Export Award from President

**2016 ~ 2018** Partnership agreement with NORIS Group  
Awarded meritorious citation for KOREA Offshore & Shipbuilding Day  
Established Daesan branch office  
Established Yeosu branch office  
Established HASUNG ENGINEERING

**2019** Awarded MOTIE(Ministry of Trade, Industry and Energy) prize  
Built HI CURRENT System



# Partners

## MAKING THE UTMOST EFFORTS TO PREPARE FOR THE FUTURE

DONGYANG is growing together with our global partners to provide diverse and advanced services.

