



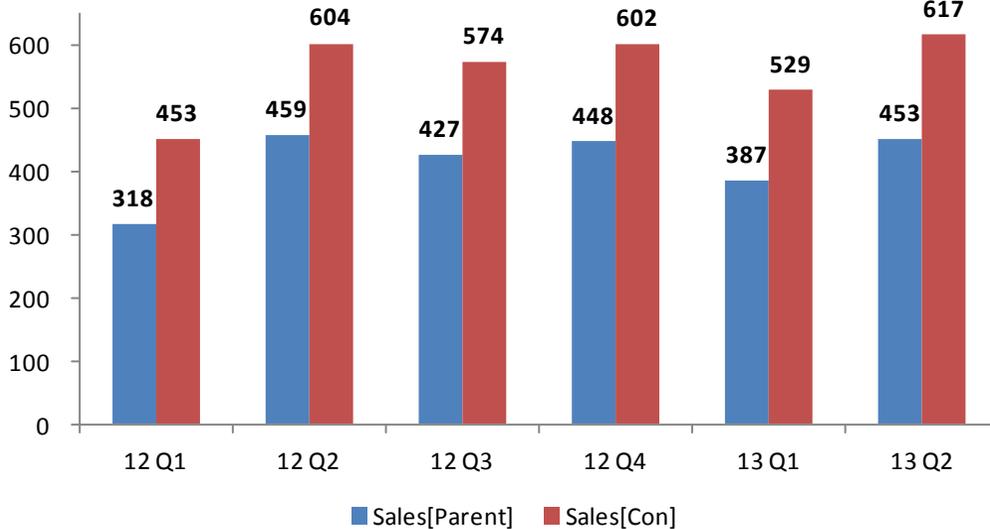
**Leading
Innovation,
Creating
Tomorrow**

Q2 2013 results



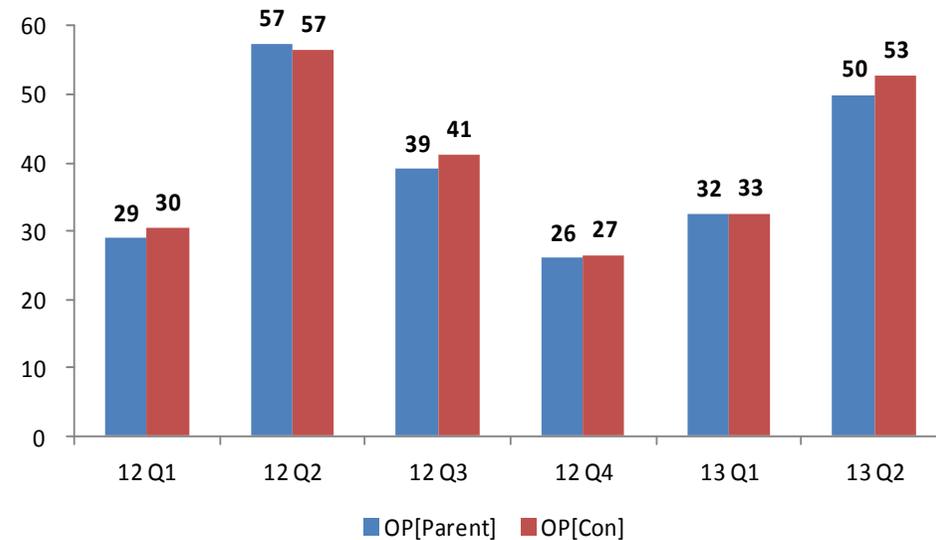
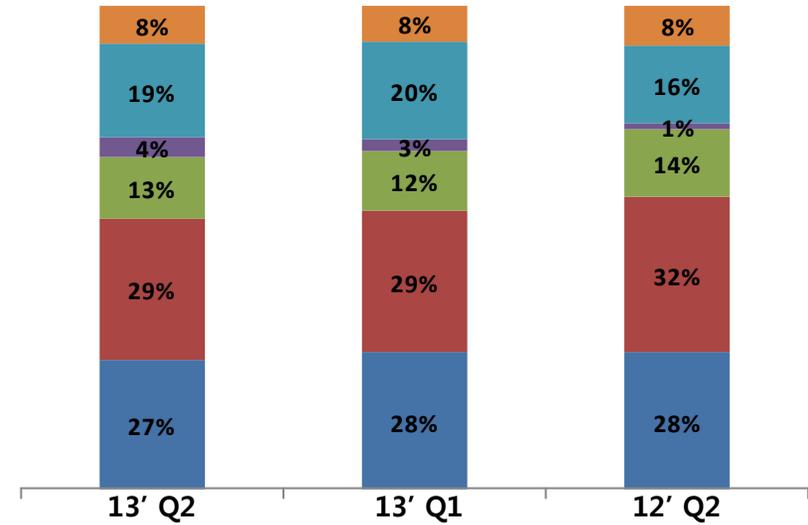
Q2'13 Results

Won(Bil)	Q2 2013	Q1 2013	Q2 2012	change	
				Y-o-Y	Q-o-Q
Sales	617	529	604	2.2% ↑	16.6% ↑
COGS	501	436	484	3.6% ↑	15.1% ↑
GP	116	94	120	-3.3% ↓	23.8% ↑
S&A Exp	63	61	61	2.9% ↑	3.4% ↑
OP	53	33	56	-6.4% ↓	61.7% ↑
EBT	28	14	46	-39.3% ↓	100.0% ↑
Net Income	23	13	32	-28.0% ↓	80.3% ↑



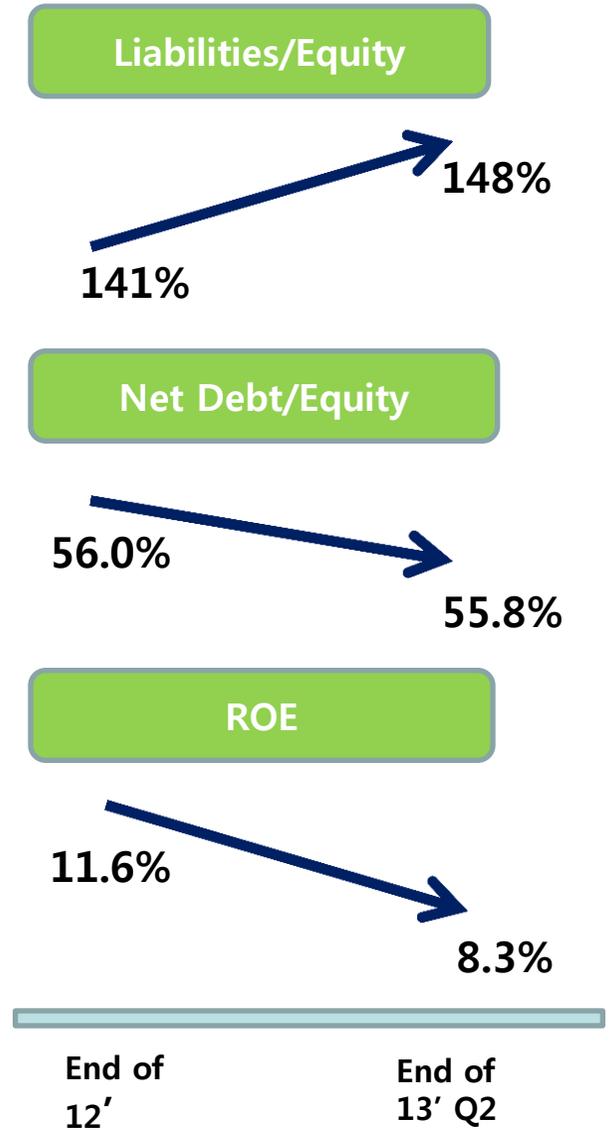
Divisional Sales

■ E/E ■ T&D ■ Automation ■ Transportation ■ LS Metal ■ Other
SOC



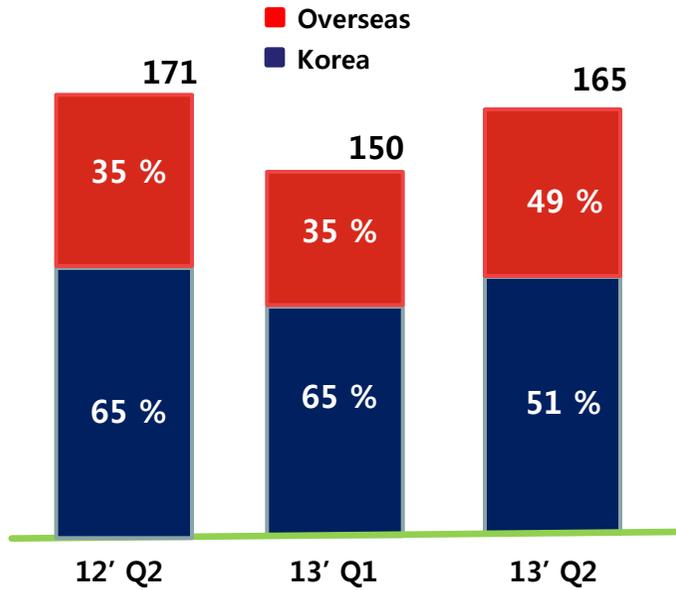
Balance Sheet

Won(Bil)	13' Q2	2012	2011	Y-o-Y	(%)
Asset	2,118	2,020	1,770	98	4.9%
Current	1,263	1,157	920	106	9.2%
Cash & Cash Equi	203	176	125	27	15.3%
Non-Current	855	863	848	-8	-0.9%
Liability	1,267	1,183	993	84	7.1%
Current	625	604	514	21	3.5%
Non-Current	642	579	479	63	10.9%
Equity	851	839	777	12	1.4%
Net Debt	475	470	451	5	1.1%



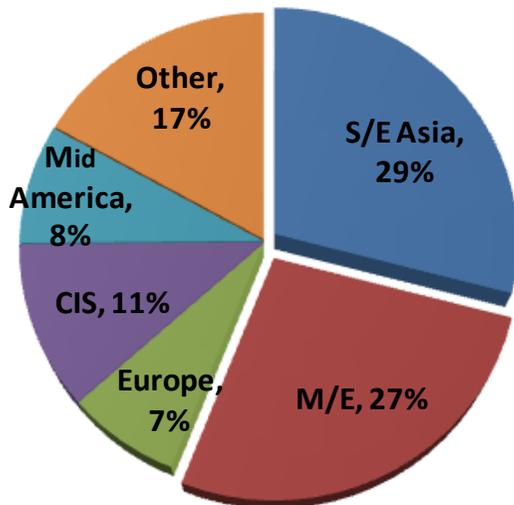
Electric Equipment – Q2 Results & Market Outlook

Sales(bil)

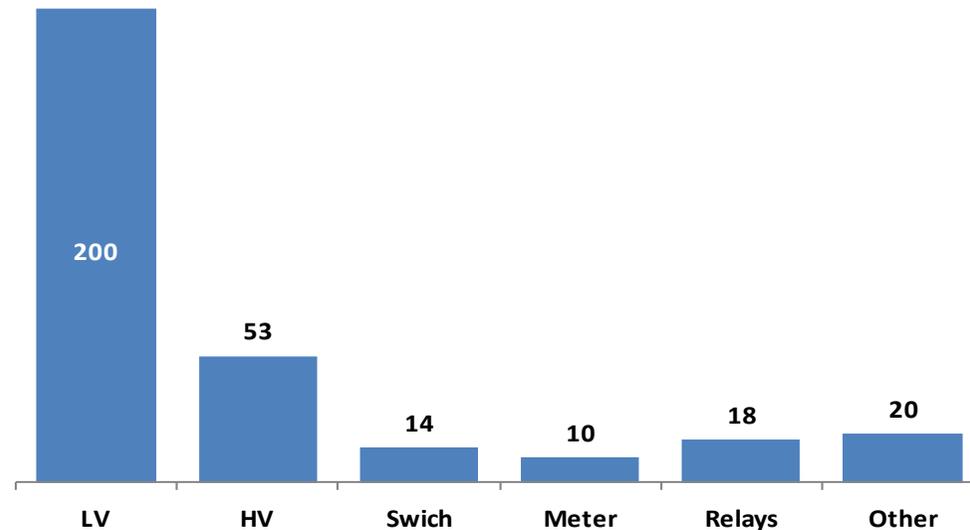


- Remained solid sales & operating profits despite of sluggish macro
- Maintained strong market dominance in Korea & exports portion increased to nearly 50% of total sales
- **[Domestic]**
Sales ↓ (Y-o-Y) due to sales deferral of Gov't PJTs & recession in shipment industry
- **[Overseas]**
Sales ↑ (Y-o-Y) due to sales growth to emerging market
- **2nd Half → Focusing on Local Mega PJTs(SSE, Hynix, Lotte, Kepco, Misc)**
- **Overall environment favorable as Macro Index expected to improve (CAPEX Δ 1.9% → +1.7%, Construction Δ 2.2 → +4.2%) in 2nd Half**

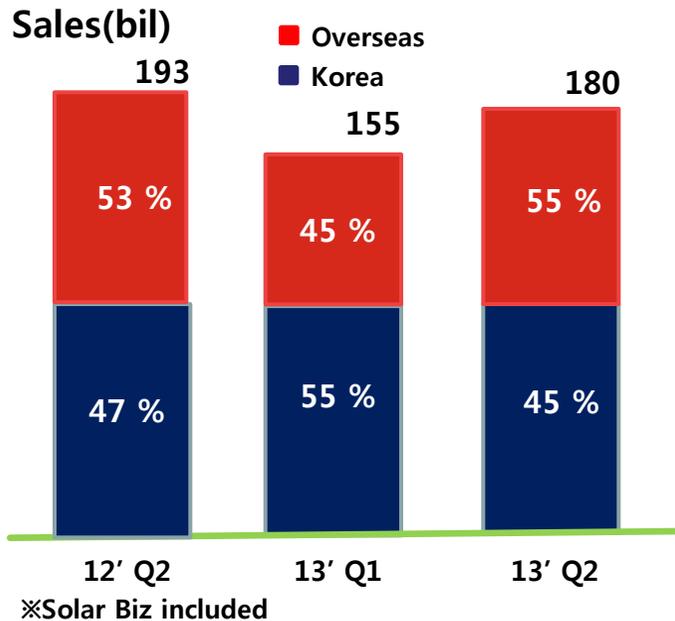
13' Q2 Export Region



Products(bil)

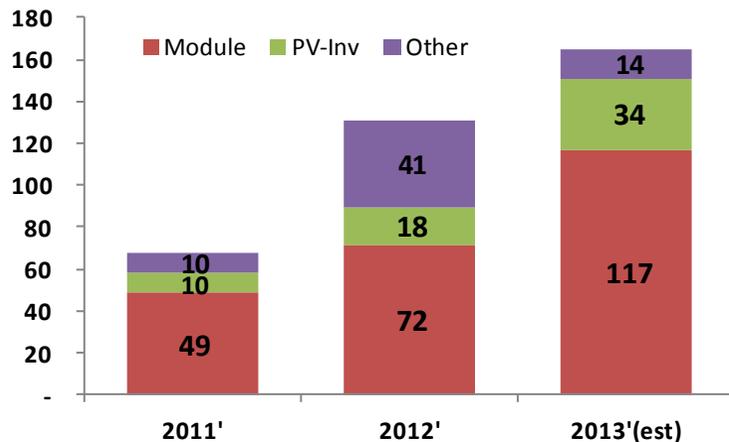


T & D – Q2 Results & Market Outlook

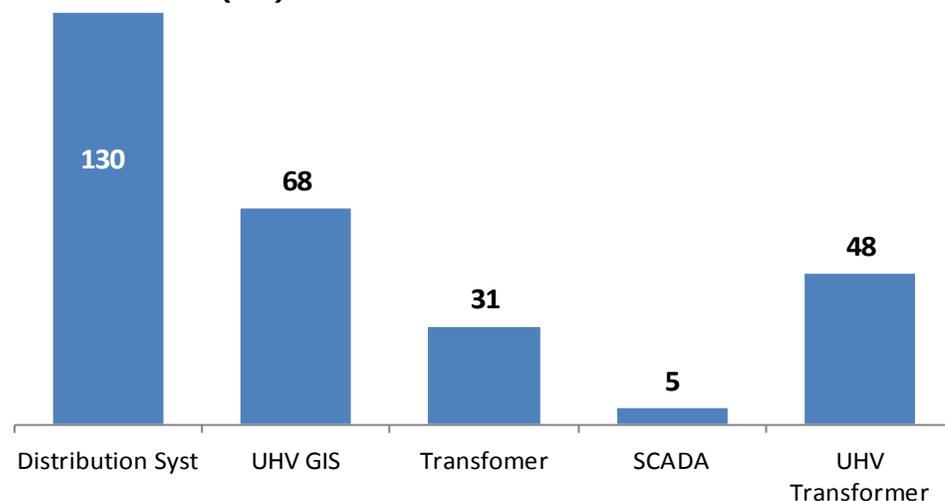


- Remained robust sales of Iraq substation PJT & PV-products to Japan
- Maintained strong Sales Growth on Q-o-Q base due to seasonality
- Sales ↓ (Y-o-Y) due to base effect of one-off PJT in Bulgaria(₩30b) in 12 Q2
- **[Domestic]**
Sales ↓ (Y-o-Y) due to Market recession & Results of fortifying Risk MGT towards Local Construction Companies
- **[Overseas]**
Strong performance at overseas biz(Iraq, Japan solar)
- **2nd Half**
 - Focusing rewarding Ongoing Bids in MENA region with Iraq Ref.
 - Fortifying Feasible Local PJTs in UHV Market(IIAT₩10b, KEPCO S/S ₩10b)
 - Solar sales expected to meet target of '13 largely driven by exports to Japan
 - Preparing 'After Iraq' Market(Saudi, Africa, US) with internalization of Iraq PJT

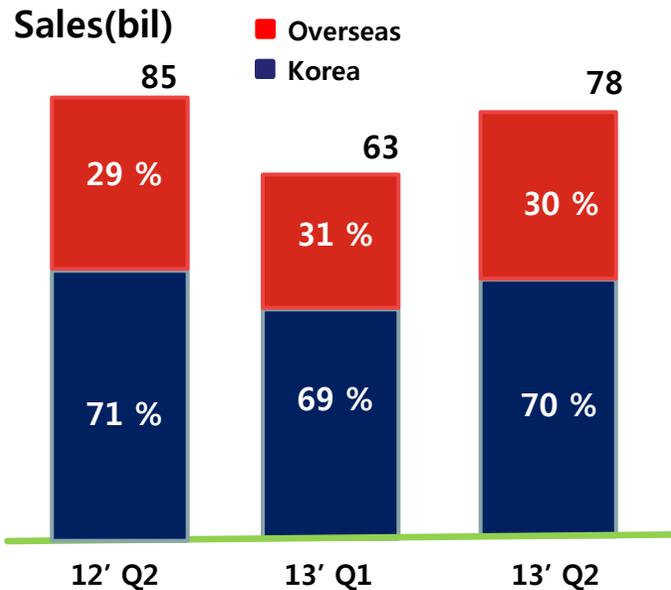
Solar Biz Sales Outlook



Products(bil)

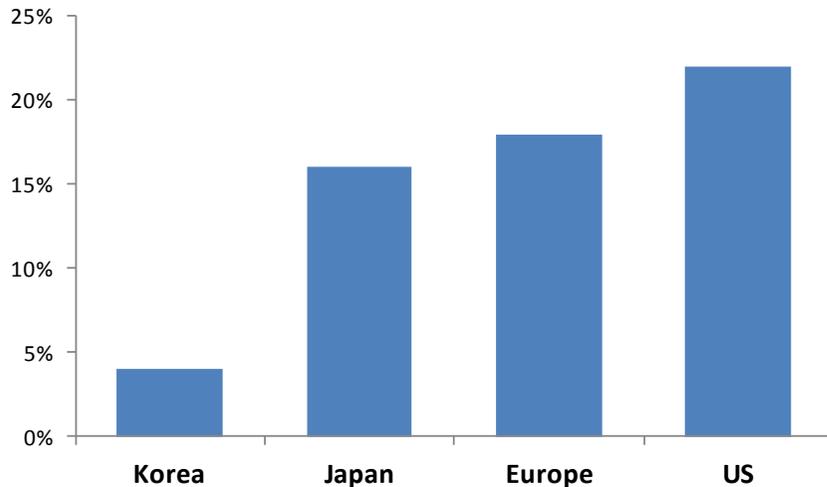


Automation – Q2 Results & Market Outlook



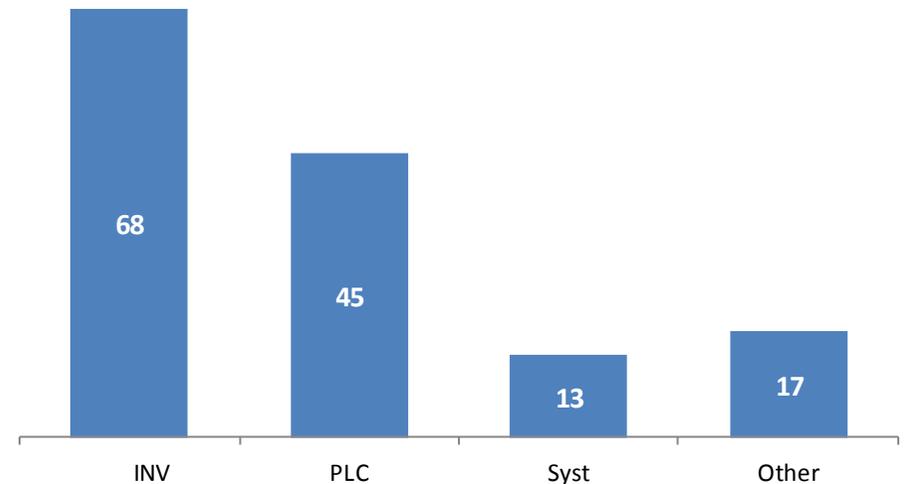
- Sales(Q-o-Q) rebounded driven by seasonality
- Remained Leading position in Local Device Market & Secured normal Sales Pace
- Automation System(Order base) sales slowdown due to weak back log
- [Domestic]
 - Sales ↓ (Y-o-Y) due to Slow-paced Macro, downturn in Capex
- [Overseas]
 - Sales Growth at Slow progress due to delaying in finding Key Accounts
- 2nd Half
 - Focusing on Energy Saving Market(Power Shortage Issues in Korea)
 - System Sales expected to rebound in 2nd Half as Back log recovering
 - Expecting high growth in next 5 years as chronic power shortage issue

Inverter Installation Ratio

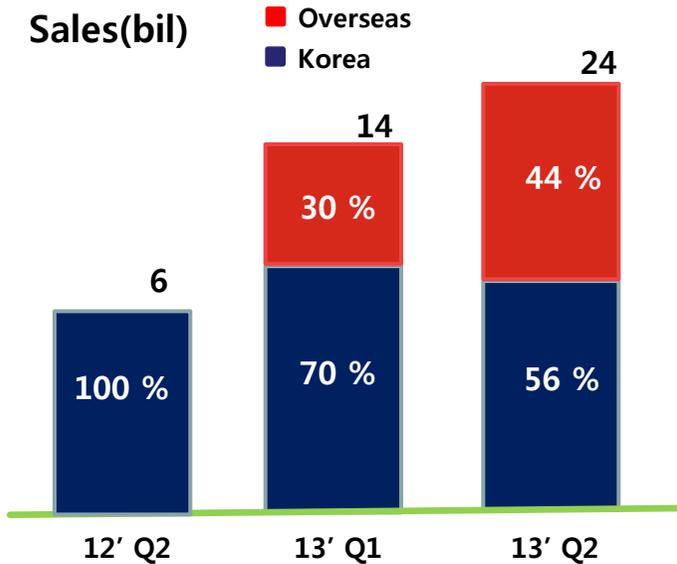


Source: Industry Data

Products(bil)



Transportation SOC - Q2 Results & Market Outlook



- Strong Sales growth driven by Sales recognition of KTX PJT & Bangladesh PJT
- Expected Sales of 13' ₩120b largely driven by two PJTs

PJT	Plan	Sales	%
KTX	65	13	20%
Bangladesh	23	14	62%

* KTX : Korea Train eXpress

- New Orders Rewarded from Taiwan PJT(₩10b)
- 2nd Half
 - Focusing on New orders IIAT(₩20b)
 - New KTX PJT (Suseo-Pyungtaek) expected to place order(₩80b)

Order Backlog

DIV		12'Q2	12' Q4	13' Q2
T & D	Korea	317	271	287
	Overseas	345	332	278
Trans SOC	Korea	191	317	316
	Overseas	35	7	31
Other	-	110	160	178
Total		998	1,087	1,090

Business Introduction

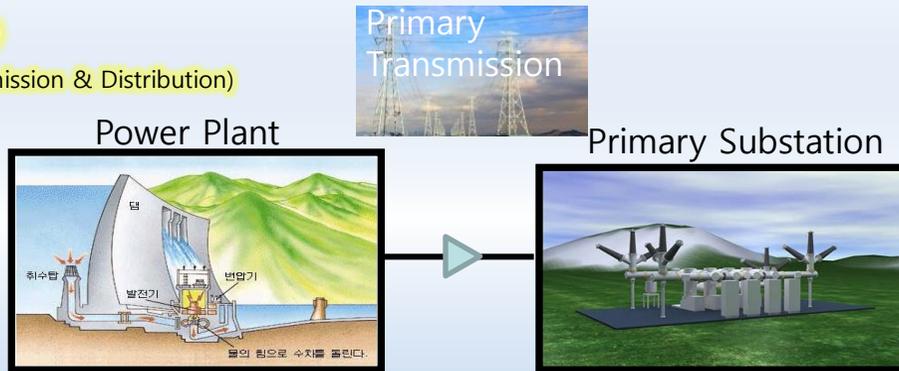


Business portfolio

Leading Electric Power, Automation & Green Business Total Solution Provider

T&D

(Transmission & Distribution)



Ultra-high voltage power transmission & distribution system equipment like gas insulated switchgear (GIS) and gas circuit breakers (GCB)

<Main Product>

- Gas Insulated Switchgear (GIS)
- Transformer
- Remote Monitoring & Diagnosis Equipment
- Power Distribution Panels & Switchgears
- Railway System

Top low and medium voltage Electric equipment for electricity users

<Main Products>

- Vacuum Circuit Breaker
- Air Circuit Breaker
- Molded Case Circuit Breaker (MCCB)
- Contactors

Business portfolio

Automation & Drive



IT Industry



Manufacturing Industry



Industrial Infrastructure



Automation systems, which integrate core hardware and software technologies as well as technological services, provide optimum total solutions in a wide range of industrial workplaces

<Main Product>

- Inverter (Motor Drive)
- PLC (Programmable Logic Controller)
- HMI (Human Machine Interface)
- Automation System (Distributed Control System)
- Power Semiconductor



Smart Grid



Photovoltaic System



Industrial IT



HVDC System



Green Car Solution

Products portfolio –Electric Equipment

Electric Equipment



- ❖ Low voltage
 - Air Circuit Breakers(ACB)
 - Molded Case Circuit Breakers (MCCB)
 - Miniature Circuit Breakers (MCB)
 - Magnetic Contactors (MC)
 - Electronic Motor Protection Relay(EMPR)
- ❖ High Voltage
 - Ring Main Unit(RMU), Load Break Switch(LBS)
 - Vacuum Circuit Breakers (VCB)
 - Vacuum Interrupter(VI)
 - Power Fuses
- ❖ Measurement / Relay
 - Smart Meter, Electronic Watt-Hour Meter
 - Digital Protection Relay & Meter



RMU, LBS

VCB

ACB

MCCB

MCB

MC & TOR

MMS



- 12/17.5/24kV
- 630A
- 21kA (3s)
- IEC62271-1~200



- AC 7.2~40.5kV
- Up to 4,000A
- Up to 50kA
- IEC 62271-100



- AC 690V
- Up to 6,300A
- Up to 150kA
- IEC 60947-2



- AC 690V
- Up to 1600A
- Up to 150kA
- IEC 60947-2



- AC 400V
- Up to 125A
- Up to 10kA
- IEC 60898



- AC 690V
- Up to 800A
- UL 508
- IEC 60947-4



- AC 690V
- Up to 100A
- Up to 100kA
- UL 508
- IEC 60947-2/4

Products portfolio –T & D

Transmission & Distribution



- ❖ Ultra High Voltage Equipment
 - Gas Insulated Switchgear
 - Gas Circuit Breaker
- ❖ Transformer
 - Mold Transformer
 - Cast Resin Transformer
 - Oil Immersed Transformer
- ❖ Power Distribution Panel
 - Gas Insulated Switchgear
 - Air Insulated Switchgear
 - Motor Control Center
- ❖ Diagnostic Equipment
 - Diagnosis & Overhaul,
 - Power Monitoring System, Rationalization
 - Power Quality Monitoring Solution
- ❖ Busway
 - Susol Busway, GH-P Type

Gas Insulated Switchgear

Transformer

Switchgear/Busway



- 362kV
- Up to 8,000A
- Up to 63kA

- 245kV
- Up to 4,000A
- Up to 50kA

- 72.5~170kV
- Up to 4,000A
- Up to 50kA

- 72~550kV
- Up to 800MVA
- IEC 60076 / ANSI(IEEE) C57

- 3.3~36kV
- Up to 20MVA

- 7.2~36kV
- 630~3150A
- up to 170kV
- IEC 62271-200
- KERI & KEMA Certified

- 600V
- 630 ~5000A
- 80 kA / 1s
- ASTA Certified

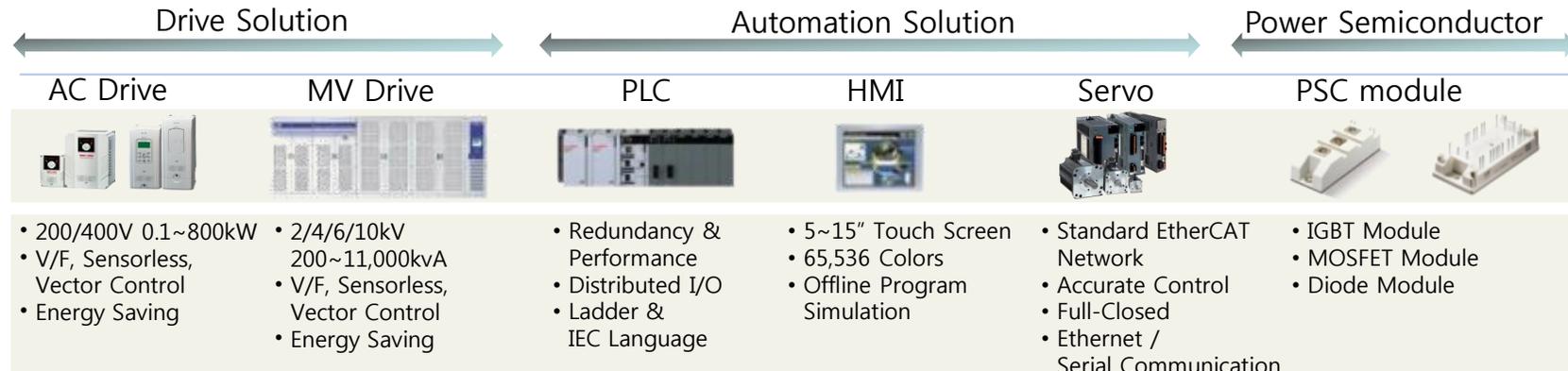
- Up to 1000 V
- 630~6000A (Al)
- 630~7500A (Cu)
- 220 kA / 1 s (Cu 4000A)

Products portfolio –Automation

Automation & Drive

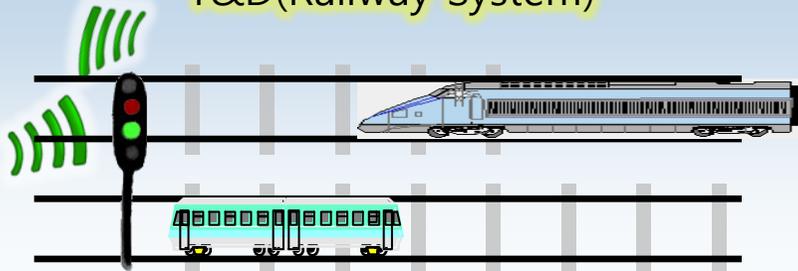


- ❖ PLC (Programmable Logic Controller)
- ❖ HMI (Human Machine Interface)
- ❖ Servo Motor/Drive
- ❖ AC Drive
- ❖ MV Drive
- ❖ Power Semiconductor



Products portfolio –Trans. SOC

T&D(Railway System)



Electronic Interlocking System(EIS)

- ❖ AF Track Circuit
 - Analog Audio Frequency Track Circuit
 - Digital Audio Frequency Track Circuit
- ❖ CTC
 - Centralised Traffic Control(CTC)
- ❖ Traction Power System
 - Scott Transformer, DC Switchgear & DC Rectifier, GIS
- ❖ Signalling System
 - Communication Based Train Control(CBTC)
 - Electronic Interlocking System(EIS)
 - Automatic Train Protection(ATP)
- ❖ ATC
 - Automatic Train Control System(ATC)
 - Automatic Train Operation(ATO)

AF Track Circuit

CTC

Traction Power System

Signalling System

ATC



- Analog Audio Frequency Track Circuit
- Digital Audio Frequency Track Circuit

- Centralised Traffic Control

- Scott Transformer (154kV/55kV)
- DC Switchgear
- DC Rectifier(1,500V / 750V)
- High Voltage Transformer (154kV/22.9kV)
- GIS (170kV, 72.5kV)
- Low Voltage Switchgear

- CBTC System
- EIS
- ATP

- High Speed Train ATC Facility
- Korail maintenance train ATC
- High speed mainline signaling system
- ATC Ground Control System
- ATC Ground Control S/W
- ATC/ATO Train Control S/W