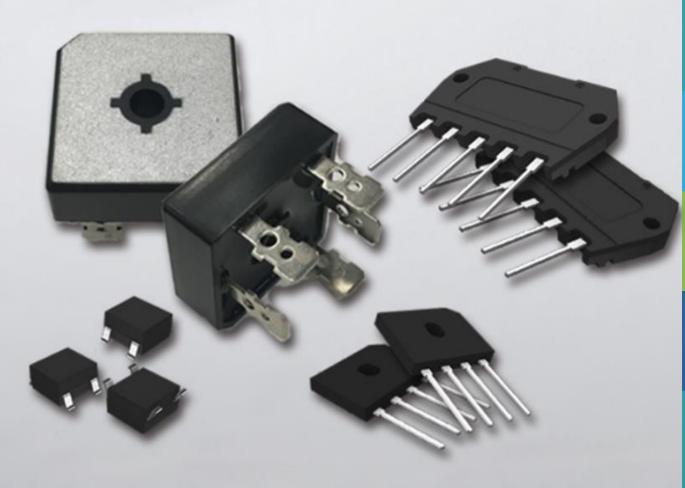
## 英屬開曼群島商 **虹揚發展科技股份有限公司** HY Electronic (Cayman) Limited

# Company Introduction

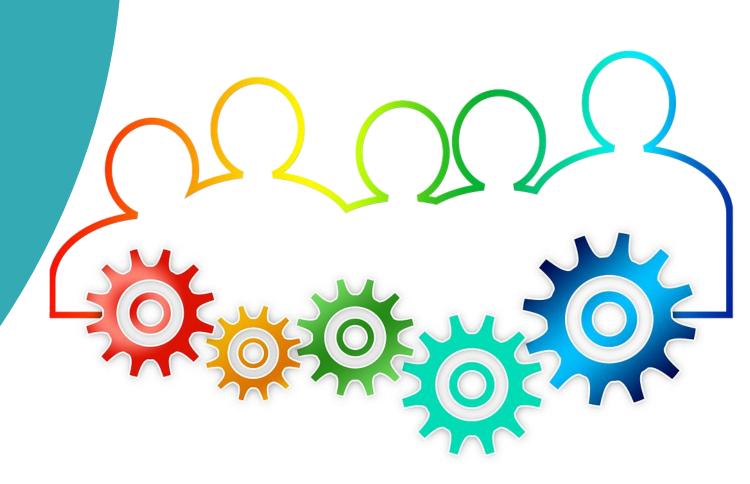
Stock code : 6573







# Oll Organization & Background



# Business Philosophy & Core Value

HY is a professional manufacturer which mainly engaged in the design, development, manufacture and sale power discrete semiconductors. We provide best quality products according to its superior R&D team, automatic production and strictly quality control system. In addition, bases on complete product combination, HY fully offer total solutions to our customers.

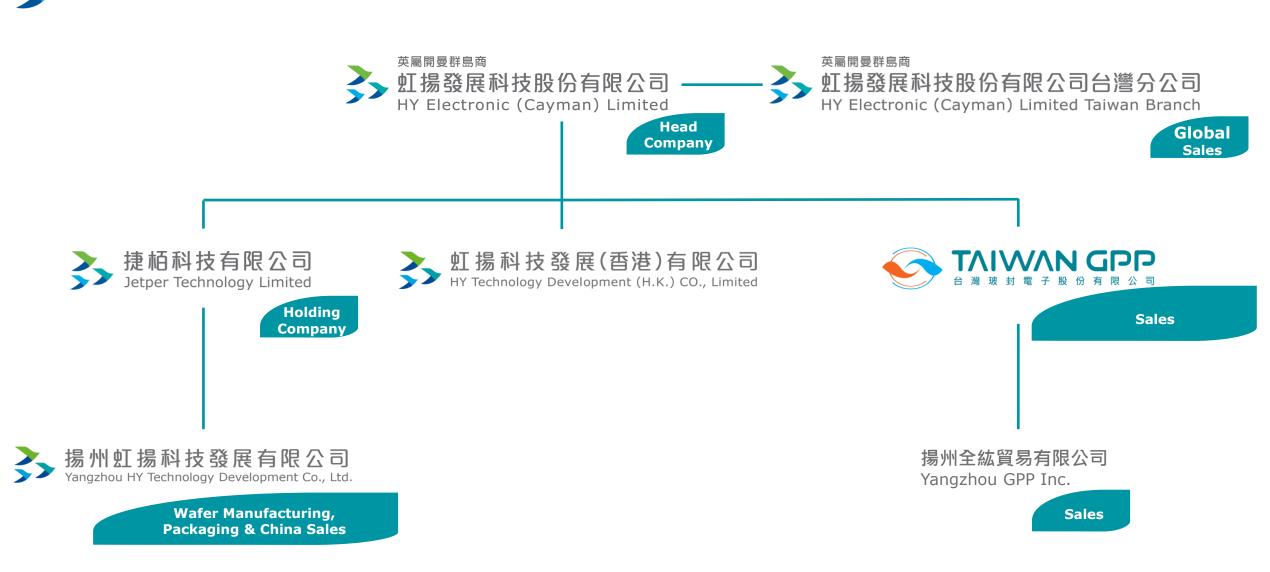
HY is the transliteration abbreviation of the company's Chinese name. It means that we hope we could have open mind and carry forward the right path and the best.

HY's sales networks are distributed all over the world. We have 17 sales offices located in the main cities of China. Moreover, Taipei branch office is responsible for the sales in Taiwan and the oversea marked areas. Except HY own brand, we also offer OEM, ODM and OBM services to many well-known companies around the world.

HY will try its best to provide valuable products and services and continuously targets to a professional total solution provider.



Group Structure







#### HY Electronic (Cayman) Limited Taiwan Branch

Square measure : 1,500 M2 Employees : 60 Task : HY group management and global sales

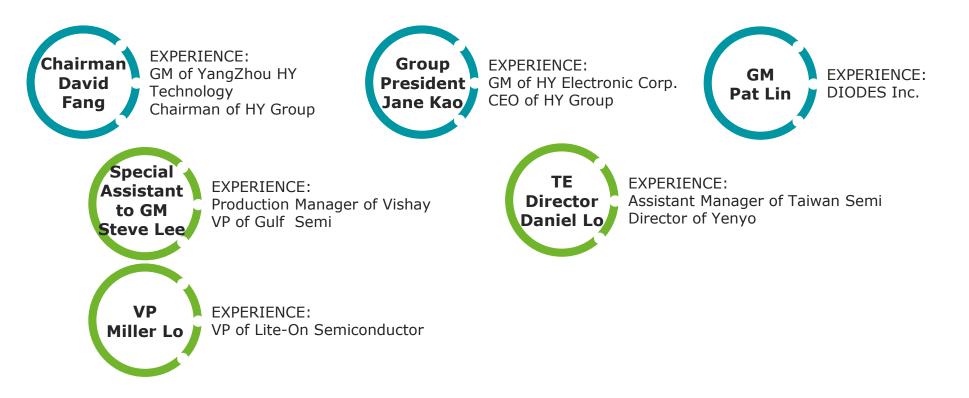


#### YangZhou HY Technology Development Co., Ltd.

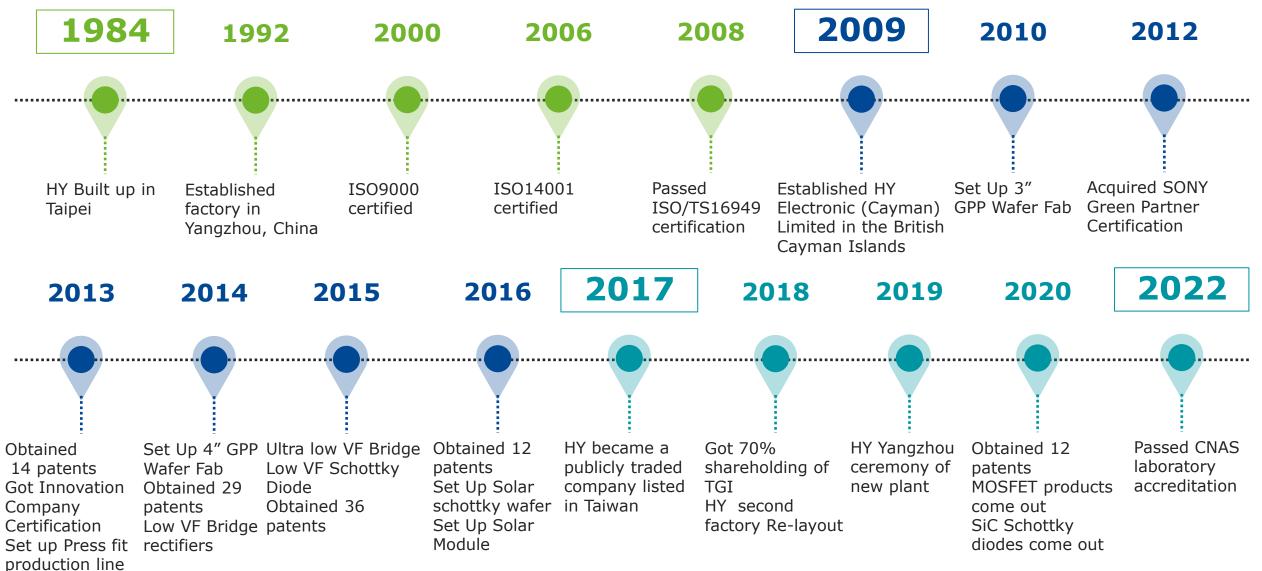
Square measure : 60,000 M2 Employees : 500 Task : Production & China sales Capacity per month : 200 kk pcs (Package)

100,000 pcs (Wafer)

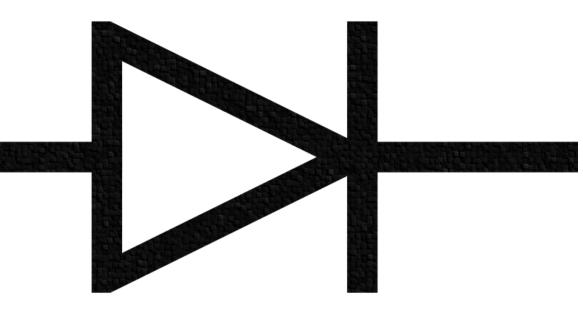
Management Team







# 02 Products Overview



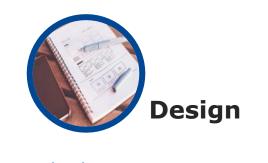




**E-Management** 

# "

- ✓ E-Management & Intelligent manufacturing.
- Using bar code in production and manufacturing to do quality and traceability management.
- ✓ Using ERP & BPM systems to do paperless process and timely abnormal control.



#### ✓ Tell the difference between products performance and SOA(safe operation area) for customer.

- ✓ Popular field application product performance further improve.
- ✓ Customer collaboration design.



- "
  - ✓ Delivery period reply within 24 hours.
  - $\checkmark\,$  CNAS Laboratory.
  - ✓ Product quality & After sales service.







## Accumulate up to 141 patents

- A total of 34 patents were filed in 2022, including 5 invention patents, 29 utility model patents.
- From 2012, HY Obtains 141 patents in China and Taiwan, and will keep continuing to research and innovate new products.



Products Overview

## DIODES

Standard Rectifiers 
FAST Recovery Diode High
Efficiency and Ultra Fast Recovery Diode 
Superfast
Recovery Rectifiers 
Schottky Rectifiers 
Low VF
Schottky Barrier Diode 
High Voltage Glass Passivated
Rectifiers 
PV Solar Cell Protection Schottky Rectifiers 
Silicon Carbide Schottky Diodes



## **BRIDGE RECTIFIERS**

Standard Bridge Rectifiers < Low VF Bridge Rectifiers < Fast Recovery Bridge Rectifiers < Threephase Bridge Rectifiers < Schottky Barrier Bridge Rectifiers



#### **Protection Device**

Transient Voltage Suppressors Diode (TVS) · Zener Diode · Electrical Static Discharge Guard

## **Small Signal Diode**

Schottky Rectifiers 
Switching Diode 
Zener Diode 
Electrical Static Discharge Guard 
TRANSISTOR

## **AUTOMOTIVE DIODES**

Standard Rectifiers 
Schottky Rectifiers High
Efficiency and Ultra Fast Recovery Diode
Superfast Recovery Rectifiers 
Bridge Rectifiers 
Transient Voltage Suppressors Diode (TVS)



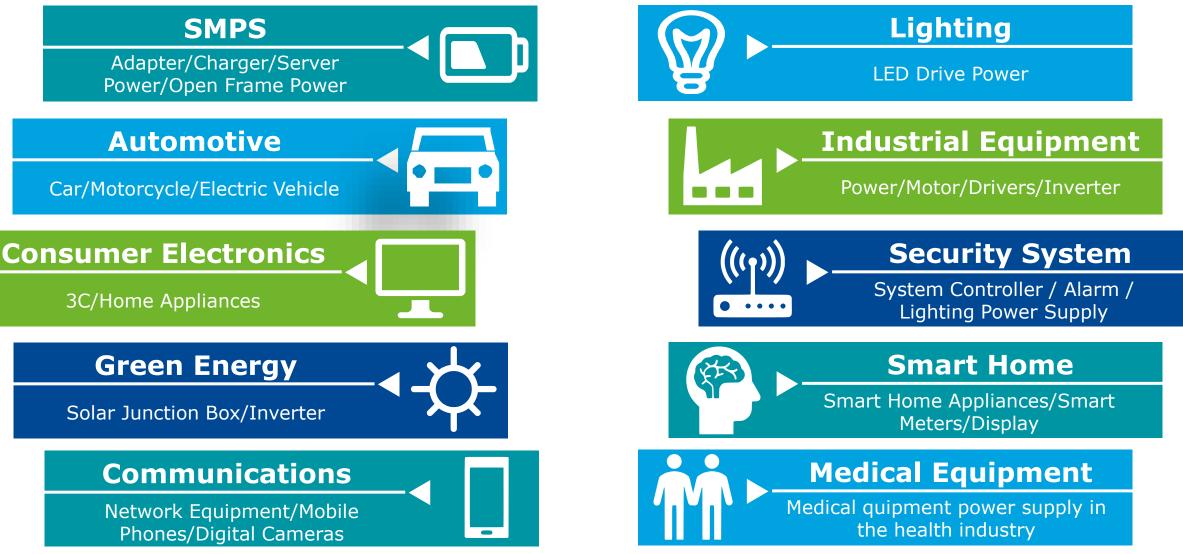
#### MOSFET

Synchronous Rectification MosFETs  $\backsim$  Super Junction MosFETs  $\backsim$  Wide Band Gap Semiconductor



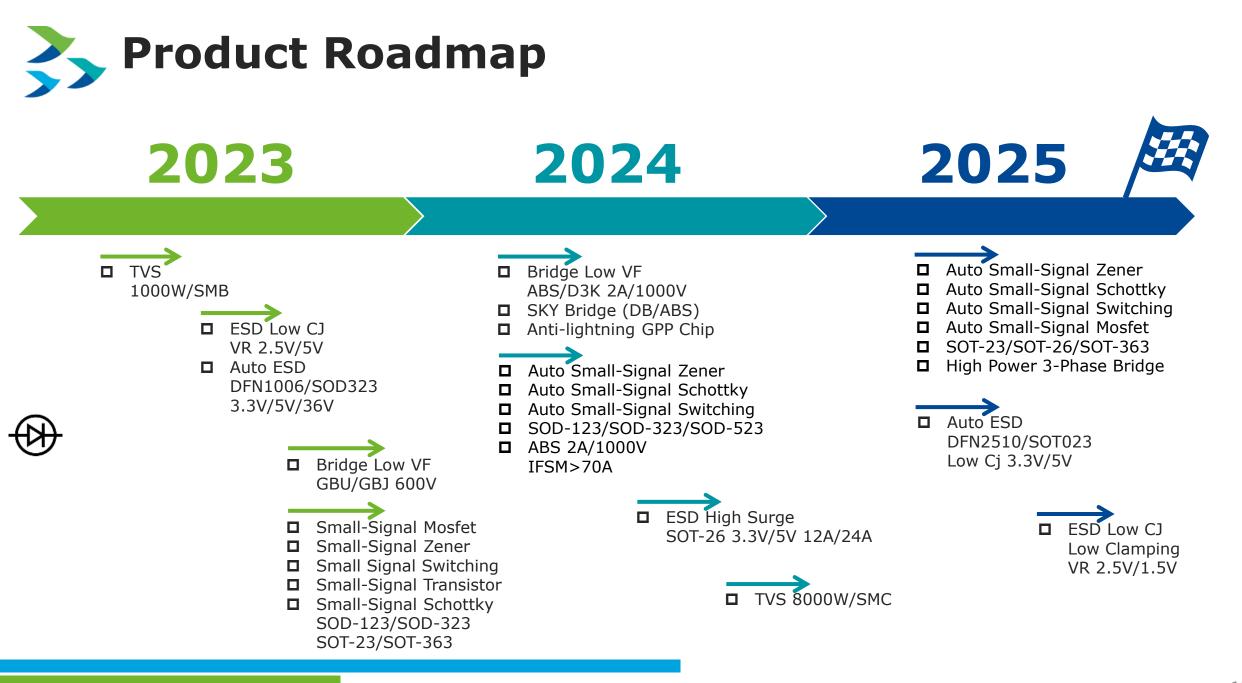








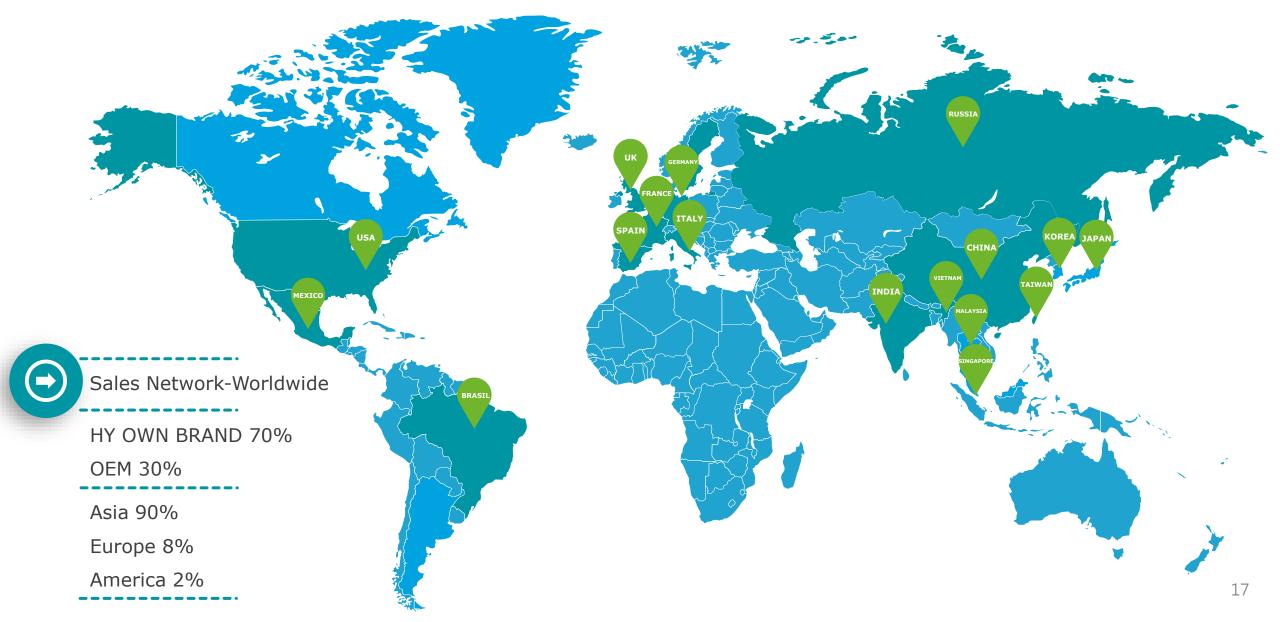
Package	Monthly/Capacity (KKpcs)	Package	Monthly/Capacity (KKpcs)	Package	Monthly/Capacity (KKpcs)	Package(ESD)	Monthly/Capacity (KKpcs)	Package(TVS)	Monthly/Capacity (KKpcs)
DO-41	179	ABS	10	GBU	9	SOD323	8	SOD-123FL	30
DO-15	28	BS	7.8	GBJ	5	SOD523	10	SMA	30
DO-201AE	10	<b>BS SCHOTTKY</b>	2.8	KBL	1	SOT26	10	SMB	20
DO-27	16	DB/DF	1.3	KBU	0.9	SOT23	10	SMC	10
R-6	1.6	DBS/DFS	3.3	BR6/8	0.6	DFN0603	10	DO-15	10
<b>R-6 SCHOTTKY</b>	39	MSBL	2	KBPC/W	0.6	DFN1006	10	DO-201	10
SMA	86	CBS	2	GBPC/W	0.6	DFN2510	6	R-6	10
SMB	6	WOG	1	BR-L	0.2	DFN1610-6L	6		
SMC	5	GBP	1.3	SBR	0.1				
TO-277A	1.4	2GBJ	1.3	СVВ	0.02				
TO-263	8.8	GBL	1.3	SGBJ/HGBJ	0.3				
TO-220	8.8	4GBJ	1.3	3-Phase Bridge	0.5				
CELL	2.6	D3K	3	Solar Module	2				



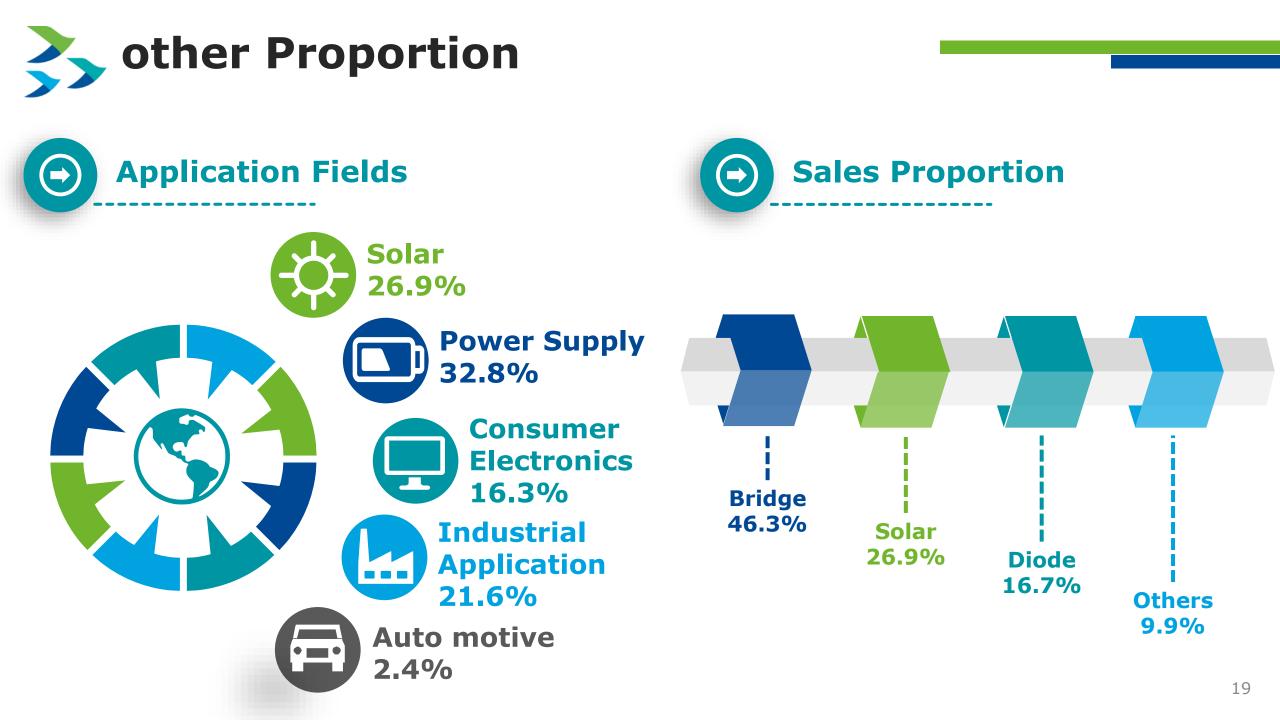
# 03 Sales Network



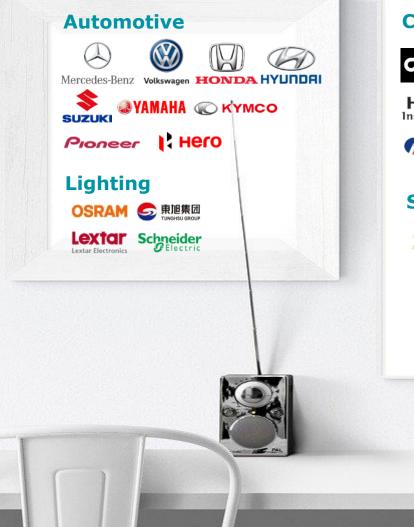
# Sales Network-Worldwide











# Consumer Electronics しいの SAMPO PHILIPS Dial HITACHI Dialea Haier Dialea Hitachi Dialea Haier Dialea Consumer Electronics Haier Dialea Midea Haier Dialea Dialea Haier Dialea Dialea Haier Dialea Dialea Haier Dialea Dialea Bosch Dialea Solar Dialea Dialea Ministria Dialea Dialea

## 

# Power Supply SONY CITIZEN FUITSU TECO NEC TAMORA EMERSON

 Industrial Application

 OMRON
 HIKVISION

 WM 医時期回

 WM 医時期回



BlackShields 黑盾





#### **Annual operating income in 2022**

# 04 Quality Assurance System



# **Comprehensive Hi-Reliability**

No.	Test Items	Test purpose	Condition
1	AC/ PCT	Assessing the product's capability to withstand high temperature, high humidity, and high pressure conditions.	TA=121°C, 100%RH, 2 atm
2		Assessing the product's capability to withstand high temperature and high humidity conditions.	TA=85°C, 85%RH
3		Assessing the product's capability to withstand repeated temperature cycling between high and low extremes.	TA=-55°C to +150°C, dwelled for 30min
4	цтς	Assossing the product's capability to withstand prolonged	TA=150°C/175°C (press fit diodes)
5	ITC	Assessing the product's capability to withstand prolonged	TA=-40°C/ -55°C
6		Assessing the product's capability to withstand transient high temperature during welding process.	260+5/-0℃, 10±1 sec. 270±5℃, 7+2/-0 sec.
7	нірк	Assessing the product's capability to withstand reverse bias under high-temperature conditions.	TA=125°C/ 150°C/ 175°C, 80%VR
8	IDIKD		TA=85°C, 85%RH 80%VR up to 100V
9		Assessing the product's capability to withstand power cycling and rapid temperature changes.	TA=25°C, 5 min. on/5 min. off, △TJ≥100°C
10	те	Assessing the product's resistance to thermal fatigue under	TA=40°C to 175°C On/Off=2/2 min.
11	Solderability	Assessing the product's ability to achieve proper soldering of pins.	245±5°C, 5±0.5 sec.
12		Assessing the product's ability to withstand electrostatic discharge (ESD) shock.	ESD @ HBM, TA=25°C (C=100pF, R=1.5KΩ)
13	EC	Assessing the product's ability to withstand momentary large	F/S @ 8.3mS, Single half-sine wave superimposed on rated load

23

# **Comprehensive Reliability Testing**



Life Testing for Reliability



Environmental Testing for Reliability

# Comprehensive Analyzing Abilities



Thermal resistance testing equipment



SZ6210P testing equipment



ESD tester

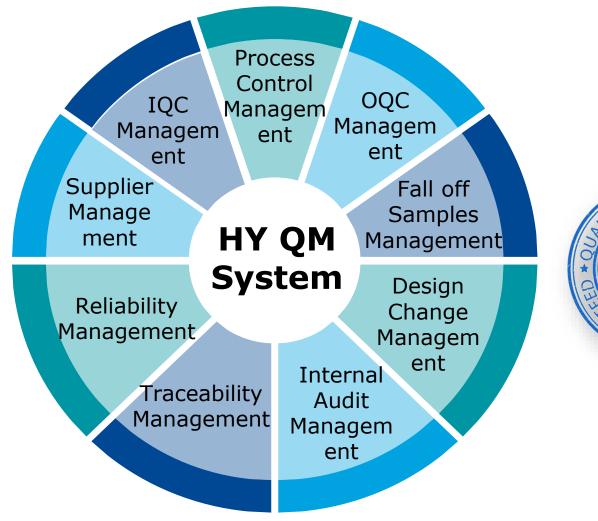


#### Halogen-free testing equipment



Electron microscopy & Energy spectrum analyzer

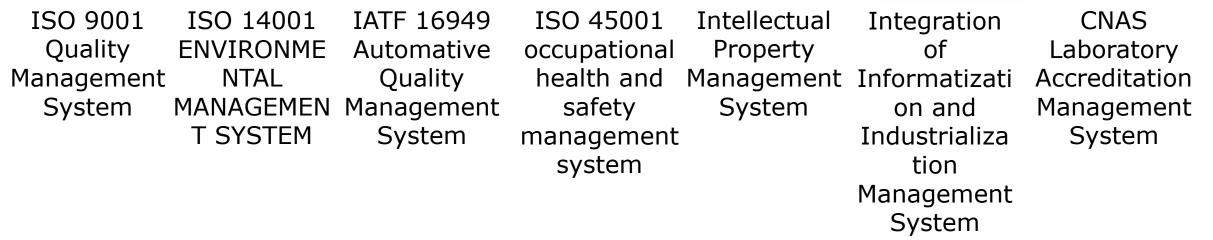
















## Power Supply

High Voltage, Low power loss, Fast switching, Low leakage products Low profile packages

### Home Appliance IOT

 Low power loss, variable frequency & anti-lightning product.

#### Industrial Automation Control

 Continue to improve power module series.

#### New material product development

 Product development including Schottky, SiC, GaN and other materials.

#### Automotive Electronics Application

 Continue to develop other related automotive electronics, towards high current; high voltage under high safety regulations.

## Solar Energy Market

- Applying trench schottky to module type with low thermal resistivity assembly materials
- Outdoor Lamps surge proof 
   high withstanding voltage & better heat dissipation
- Low power loss & surge proof



HY has the obligation to carry out corporate social responsibility policy. While pursuing sustainable business operations and profit-making, HY pays attention to the interests of stakeholders and the maintenance of environmental protection and social welfare. HY's practice of corporate social responsibility will be implemented by the following principles:



Gives Back to Our Societies



Environmental Protection

Employee Care Management & Human Rights Policy



## THANK YOU FOR YOUR LISTENING



#### http://www.hygroup888.com

免責聲明

- 本簡報中所提及之預測性資訊包括營運展望、財務狀況以及業務預測等內容,乃是建立在本公司從內部與外部來源所取得的資訊基礎。
- 本公司未來實際所可能發生的營運結果、財務狀況以及業務展望,可能與這些明示或暗示的預測性資訊有所差異。其原因可能來 自於各種因素,包括但不限於市場風險、供應鏈、市場需求,以及本公司本公司所不可控的風險等因素。
- ▶ 本簡報中對未來的展望・反應本公司截至目前為止對於未來的看法。對於這些看法,未來若有任何變更或調整時,本公司並不負責隨時提醒或更新。