

**SAMXON**<sup>®</sup>  
Aluminum Electrolytic Capacitors

**X-CON**<sup>®</sup>  
Conductive Polymer  
Aluminum Solid Capacitors

**XLPC**<sup>®</sup>  
Aluminum Multilayer Polymer Capacitors

**ANGA POW**<sup>®</sup>

# Company Profile

Version : 2023



 **MAN YUE TECH**  
萬裕科技  
[www.manyue.com](http://www.manyue.com)



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# Organization Updates

 **MAN YUE TECH**  
萬裕科技 **Founded in 1979** (Established over 44 years)

 **HKEX**  
香港交易所 **Listed on Hong Kong Stock Market since 1997** (Stock Code: 00894)

Total Assets **USD411million** (2022 Annual Report)

Total Sales Revenue **USD235million** (2022 Annual Report)



Ranked as the **Worldwide No.8** Aluminum E-Cap Makers (Revenue)

Estimated **Worldwide No.4** Aluminum Polymer Makers (Revenue)

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# Production Capacity

**1,050** million pcs/month for  
**Aluminum E-Cap**  
(include snap-in terminal)



**130** million pcs/month for  
**Polymer & Hybrid Cap**



**7** million pcs/month for  
**Snap-in Terminal Cap**



**50** million pcs/month for  
**Multi-layer Cap**



**50** kpcs/month for  
**Power Film Cap**



**2** million pcs/month for  
**Super Cap**



**8,000** pcs/month for  
**EDLC Module**



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# Man Yue Technology Holdings Ltd

Established Year : 1979

(Stock Code : 00894) Listed in HKSE : 1997

## E-Cap Manufacturing Facilities

**SAMXON ELECTRONICS (DONGGUAN) CO LTD (2007)**  
Monthly Output : 850KKpcs (E-Cap)  
130KKpcs (Polymer)

**WUXI MAN YUE ELECTRONICS CO LTD (2005)**  
Monthly Output : 200KKpcs  
Q2 2016 + 200KKpcs

## Upstream Vertical Integration : Foil Plant

**RIFENG (QINGYUAN) ELECTRONICS (2006)**  
(Foil Etching & Formation)  
Low Voltage

**RI HONG (YA'AN) ELECTRONICS (2011)**  
(Foil Etching & Formation)  
Mid & High Voltage (180V+)

**MAN YUE ELECTRONICS CO LTD**  
Sales & Marketing (HK HQ)

**MAN YUE ELECTRONICS CO LTD**  
TAIWAN BRANCH (H.K.)  
(TAIWAN)

**MAN JIN ELECTRONICS (SHENZHEN) CO LTD**  
(SHENZHEN)

**MAN FAT INTL TRADING (SHANGHAI) CO LTD**  
(SHANGHAI)

**QINGYUAN YUE JIN ELECTRONICS CO LTD**  
(QINGYUAN)

**CHINA SALES OFFICES**  
(DG · WX)

**TOTAL WORKERS ~3,000**

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# Aluminum E-Cap & Foil Manufacturing Facilities



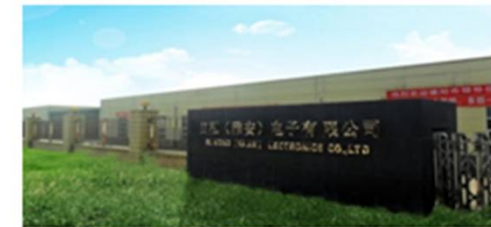
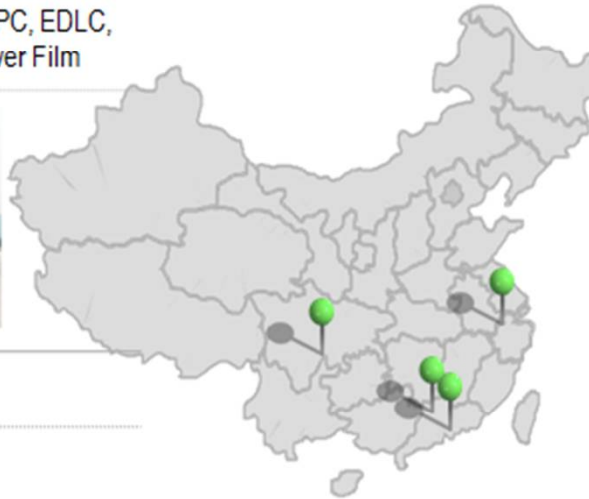
Location	• <b>Dongguan Plant</b>
Area	• 95,000 sqm • Commenced operations by 2007
Capacity	• 850M pcs/m • Max cap. up to 1B pcs/m
Products	• E-Cap, Polymer, MLPC, EDLC, EDLC Module & Power Film



Location	• <b>Wuxi Plant</b>
Area	• 160,000 sqm • Commenced operations by 2005
Capacity	• 200M pcs/m • 200M pcs/m cap. will be added in Q4 2016
Products	• E-Cap



Location	• <b>Qingyuan Plant</b>
Area	• 40,000 sqm
Products	• Low voltage foil etching & formation for internal use



Location	• <b>Sichuan Plant</b>
Area	• 48,700 sqm
Products	• Middle & high voltage foil etching & formation for internal use



# Company Global Network



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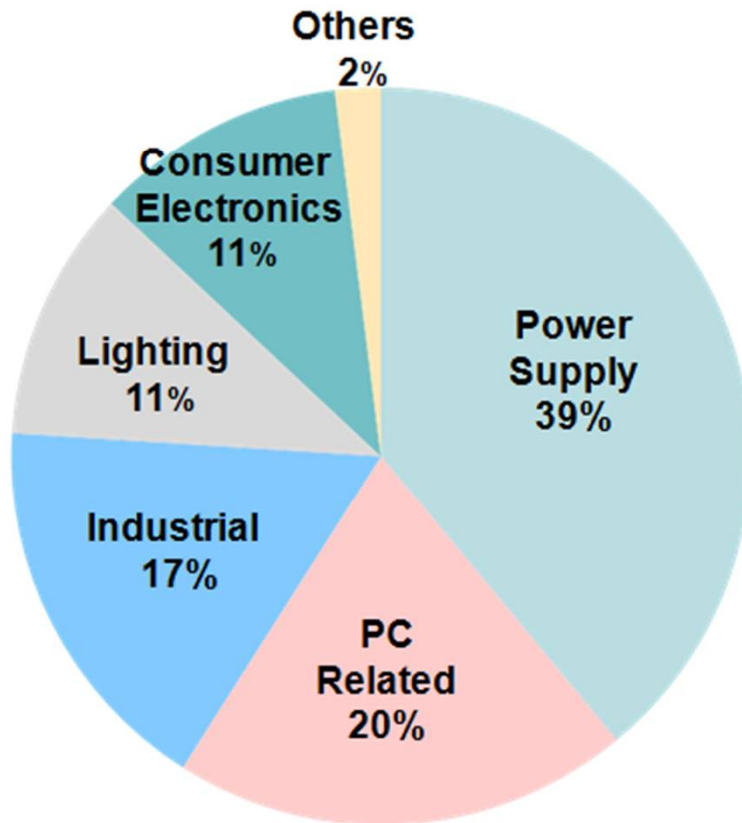
**XLPC®**  
Aluminum Multilayer Polymer Capacitors

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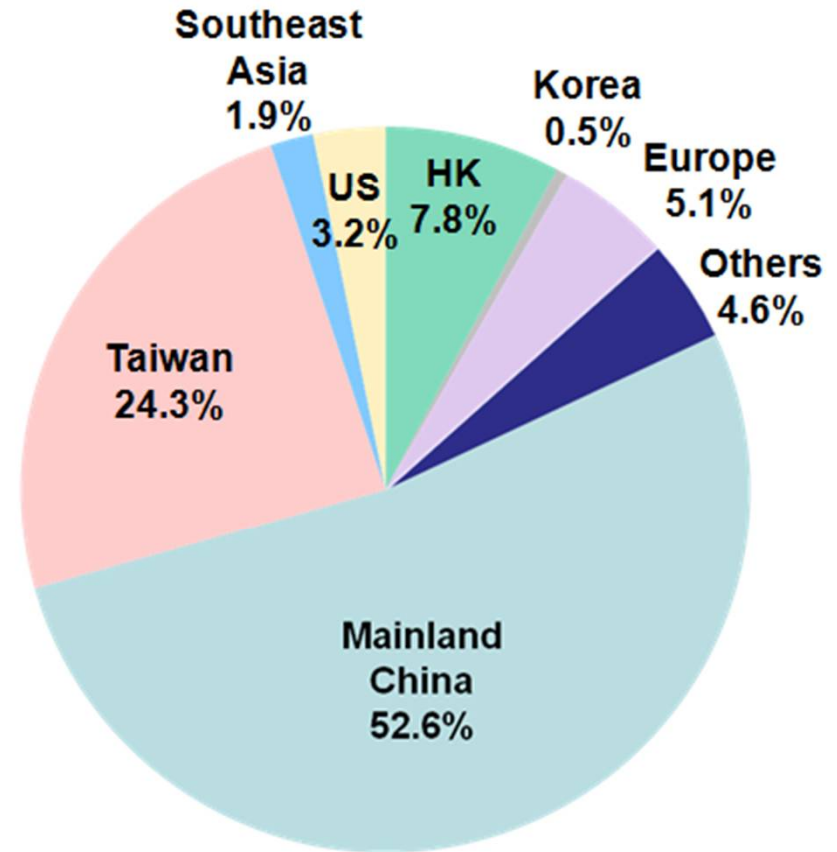


# Application & Region Distribution

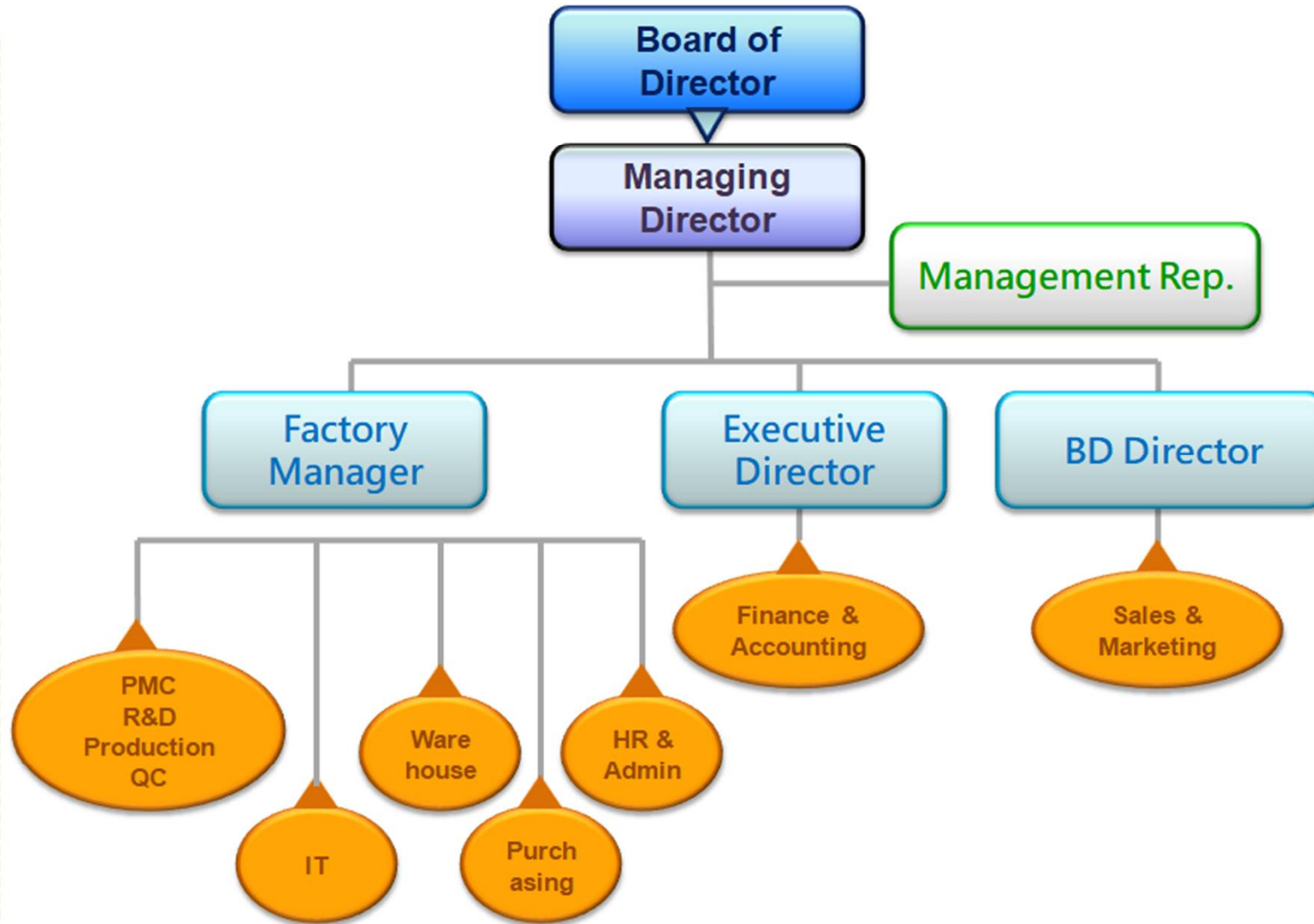
Sales by Application



Sales by Region

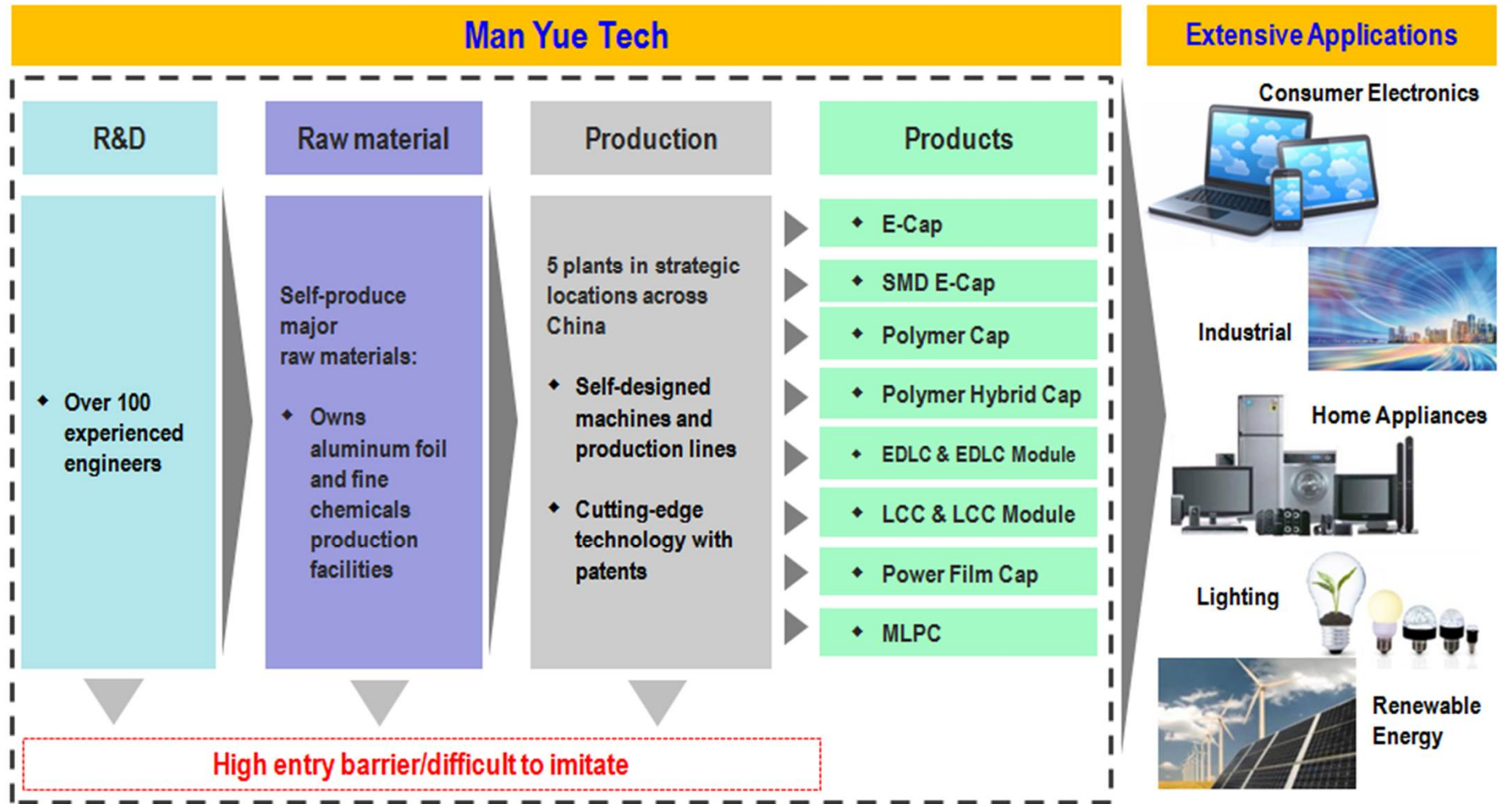


# Corporate Organization





# Business Model

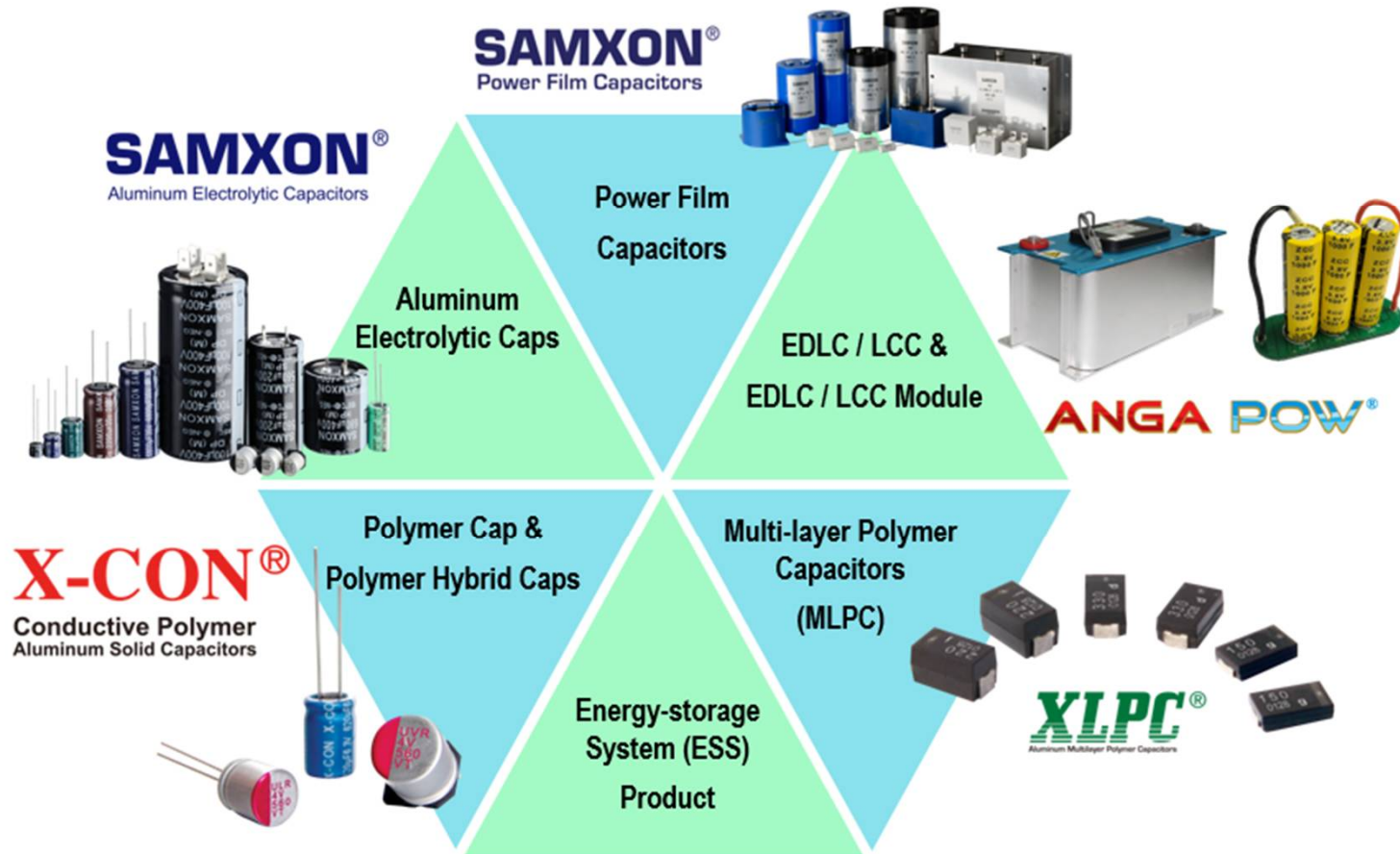


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# Multi-product Platform

*Diversified product platform provides a wide range of electronic components*



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# Capacitors Product Range

## E-Cap



Size :  $\Phi$ 3mm to 120mm  
 Length : 5mm to 260mm  
 Voltage : 4V to **700V**  
 Temperature : -55°C to **+130°C**  
 Capacitance : 0.1uF to 7.5F  
 Life : 1,000 to **20,000 hrs**

## EDLC



Size :  **$\Phi$ 4mm** to 60mm  
 Length : 11mm to 165mm  
 Voltage : 2.3V / 2.5V / 2.7V / **3V** / 5V  
 Temperature : 2.7V/5V (-40°C to **+70°C**) or  
 2.3V/2.5V (-25°C to **+70°C**)  
 Capacitance : 1F to 3800F  
 Cycles : Charge/Discharge 500,000  
 cycles

## Polymer Cap



Size :  $\Phi$ 4mm to 10mm  
 Length : 4.5mm to 20mm  
 Voltage : 2.5V to **300V**  
 Temperature : -55°C to **+125°C**  
 Capacitance : 1uF to 3900uF  
 Life Test : 2,000 to **10,000 hrs**  
 Impedance : 5m $\Omega$   
 Ripple Current : **8.1A**

## MLPC



Size D : 7.3x4.3x**1.1**/1.9/2.8mm  
 Voltage : 2V to **35V**  
 Temperature : **-55°C** to +125°C  
 Capacitance : 6.8uF to **560uF**  
 Life Test : **2,000 hrs**  
 Impedance : **3** to 70m $\Omega$   
 Ripple Current : 1 to **4Arms**

**Custom made available upon request**

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# E-Caps Product Type

## Snap-in Type (For Consumer & Industrial)



Size :  $\Phi$ 20mm to 50mm  
Length : 25mm to 130mm  
Voltage : 10V to **650V**  
Temperature : -40°C to +105°C  
Capacitance : 39uF to 82,000uF  
Life Test: 2,000 to 10,000 hrs  
Terminal : 2, 3, 4 & 5 leg for selection

## Screw Terminal Type



Size :  $\Phi$ 35mm to 120mm (120 x 240mm)  
Length : 50mm to 260mm  
Voltage : 10V to **700V**  
Temperature : -40°C to +125°C  
Capacitance : 100uF to 7,500,000uF  
Life Test : 2,000 to 20,000 hrs

## High Temp & Reliability Type



Size :  $\Phi$ 5mm to 18mm  
Length : 12mm to 45mm  
Voltage : 10V to **600V**  
Temperature : -40(-25)°C to +130°C  
Capacitance : 1uF to 15,000uF  
Life Test : 3,000 to **20,000 hrs**  
Impedance : 16m $\Omega$

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# EDLC Module Application



## Main Function

- ◆ Energy Storage System
- ◆ Power Back Up
- ◆ Wind Energy Storage

## Excellent Features

- ◆ Excellent Energy Storage Device
- ◆ Green Energy
- ◆ High Power Density
- ◆ Instant charge & discharge
- ◆ Long lifespan
- ◆ High Standard of Safety
- ◆ Microsecond Speed
- ◆ Excellent Low Temperature Endurance

## Main Applications



New Energy Vehicles



Micro-grid  
(distributed smart grid)



Energy  
Regeneration  
System for Rail  
Transportation



Wind Turbine



Elevator Automatic Rescue  
& RTG Port Crane Energy  
Regeneration System

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# All Products are RoHS Compliance

**MAN YUE/SAMXON is the 1st non-Japanese brand that set up its own ICP/RoHS laboratory**

## Set up “RoHS laboratory”

Make sure all materials are full compliance with RoHS



**XRF Machine  
(4 sets in used)**

**Test time : 120  
seconds, can test Pb -  
Cd - Hg & all Cr - all  
Br.**



**ICPE-9000  
MULTITYPE PLASMA  
Spectrophotometer**

More accurately test:  
Pb - Cd - Hg

**UVmini-1240 UV-Vis  
Spectrophotometer**

More truly test: All Cr

限制鹵素的法規 Restriction on Halogens Free

物質 Substance	規定限制 Permissible Limit (以重量計算 by weight)
溴化合物 Bromine (Br)	900 ppm (0.09%) ✓
氯化合物 Chlorine (Cl)	900 ppm (0.09%) ✓
總鹵素含量 Total concentration of: 氯化合物 Chlorine (Cl) + 溴化合物 Bromine (Br)	1500ppm (0.15%) ✓

**Halogen Free Ready**

*More Accurate*

*More Accurate*

**EDX-GP  
Energy Dispersive X-Ray  
Fluorescence Spectrometer**  
More accurately test:  
Halogen Free

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# Design & Engineering Capability

1. Over 100 R&D experienced engineers from chemical, electrical, electronic and mechanical, reliability fields
2. Leading by prominent Chief Engineer with over 36 years in R&D domain
3. Technical steering committee comprised of Japanese consultants with over 30 years in the industry



深圳清华大学研究院  
Research Institute Of Tsinghua University In Shenzhen



Working hand-in-hand with one of China's most prestigious universities, the **Tsinghua University** from April 2004, to set up a Research Laboratory in Shenzhen to focus on chemical technology and material science research projects.  
(Fully subsidized by Man Yue / Samxon)

## Qualification and Number of Employment:

PHD : 5  
Master : 3

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# The 1<sup>st</sup> Non-Japanese E-Cap Manufacturer obtain direct approval from Worldwide Technology Leaders

1. The world's largest semiconductor company



2. The world's largest GPU/IC manufacturer (We are already their RDP) →



3. The major personal computing technology leaders



4. The major Game Console suppliers in the world (XBOX 360) →



XBOX 360





# Global Customers Network

## Consumer Electronics Customers

### Power Supply/Charger



### MB/Notebook/Game Console/Graphic Card



### Smart Phone & Tablet Charger



### High-end Audio



## Home Appliance



## Renewable Energy

### Solar Inverter



### Charging Pole



## Lighting

### Ballast/Energy Saving Lamp/LED Lamp



### Wind Power / Hybrid Bus



### Active Power Filtering (APF)



# Global Customers Network

## Industrial Customers

### Frequency Converter



### Smart Meter Customer

Covered region : Italy - France - Spain & UK



### UPS / EPS



### Networks/Communication



### Laser Power



### Smart Meter Customers



# Awards from Customers



# Awards

## The Hong Kong Innovation & Technology Innovative Technology Achievement Award - Innovative Technology by FITMI 2017



## Man Yue receives HKCIEA - Corporate Achievement Awards 2014



## Man Yue Tech receives HKAI - Productivity & Quality Grand Awards 2013



董事總經理兼執行董事陳宇澄先生榮獲「香港青年工業家獎2008」  
Mr. Eugene Chan, the Managing Director & Executive Director, awarded "Young Industrialist Award of Hongkong 2008"  
陳宇澄先生「2008香港的若い資本家賞」の名譽を受賞した



# Accredited



**ISO 9001**



**ISO 14001**



**QC 080000**



**CE EN61000**



**IATF 16949**

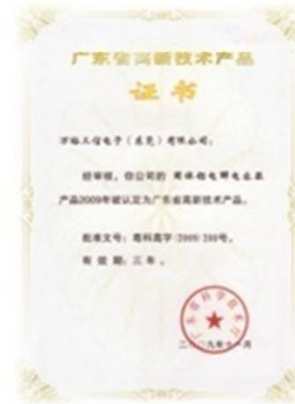


# Awards



- Awards for Industries : Environmental Performance Certificate of Merit 2008
- Sony Green Partner Awarded in 2009
- MAN YUE Awarded HKAEE ProductwiSe – Excellence, WastewiSe & EnergywiSe - Good 2010
- MAN YUE Awarded HKAEE Manufacturing – Merit 2012/2011/2010
- MAN YUE Awarded HKAEE WastewiSe Excellence 2013-2019
- MAN YUE Awarded Hong Kong Green Organisation in 2016-2020
- MAN YUE Awarded Hong Kong Green Organisation Certification “EnergywiSe” Basic Level in 2021

# Awards



- Enterprise of Observing Contract and Valuing Credit 2009
- Guangdong Independent Innovation Products 2009
- 1<sup>st</sup> Runner-up in Scientific & Technology Advancement Award 2009
- Advanced and High Technology Products 2009
- SAMXON Awarded the title of "National High-tech Enterprises" 2010
- 3<sup>RD</sup> Prize of Guangdong Science and Technology 2010
- Awarded National Innovation Independent Brand 2011
- Awarded Advanced Technological Enterprise of Changan Dongguan 2011
- Awarded Enterprise of Dongguan City in Patent Education 2012
- Awarded Gold Prize in Patent of Dongguan City 2012
- Awarded 2<sup>nd</sup> Prize of 2012 Technological Improvement in Lushan County



# Awards



- Hong Kong's 100 Most Influential Brands for 2008
- Top 10 Well-known Brand in Electronic Components Industry of China 09
- SAMXON & X-CON Awards "Excellent Brand of Capacitors" in China 2010
- "TIANGONGZEN" Top 10 Most Influential Brand 2010
- SAMXON & X-CON Awards Famous Brand in China 2011
- MAN YUE TECH RANKED 2<sup>ND</sup> "Best Small-Cap" of the Year 2011
- Top 10 Famous in Electronic Components Industry of China 2011
- Best Electric Vehicle Super Capacitor Manufacturer of the Year 2014

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# *Thank You!*

**Stock Code: 00894**

**Corporate Website: [www.manyue.com](http://www.manyue.com)**

**Investor Relation Contact: [ir@manyue.com](mailto:ir@manyue.com)**



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