

# Sysgration Corporate Profile

Jan-2019

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**SYSGRATION** 

# Integrity(誠信) Passion(熱忱) Commitment(承擔)

Innovation (創新)

# Through System Integration to differentiate Customers from competitors

### Milestones



# **SYSGRATION**

#### 1977 - Company founded in Taipei Taiwan

- 1988 Nantou Plant established for Microsoft
- 1995 Awarded business from American Power Inc. (Schneider)
- 1996 IPO in Taiwan (TW 5309)
- 2009 TS-16949 Certificated (Nantou) Tier One Supplier of Volkswagen Group
- 2009 Awarded business from Toyota Middle East
- 2010 Awarded business from Alpine and Voxx/ASA Electronics
- 2011 Awarded business from Porsche and SEAT
- 2014 Equipment Supplier of Mercedes Benz
- 2015 BLE TPMS Shipped to Michelin and Kenda
- 2015 The EV Battery Pack Shipped to CRRV and ZEV Motor
- 2016 16949 Certificated for HuiZhou and Zhenjiang BLE TPMS Shipped to ShangHai Motors Group
- 2018 EV BP Approved and Shipped to DongFeng Motors
- 2018 UPS BP Approved and Shipped to TSMC, Eaton, & Delta

#### **Business Directions**

**SYSGRATION** 

#### **Automotive & Industrial**

















#### **Power Management Systems**

#### **Key Customers**

# **SYSGRATION**



# **HQ and Taiwan Factory**

# **SYSGRATION**



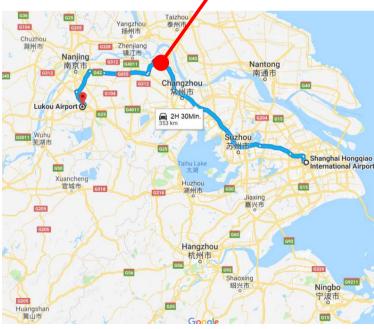
## **China Factory – ZhenJiang**

# **SYSGRATION**



- Location: ZhenJiang, JiangSu, China
  - ✓ 1.5-Hr Drive from NanJing Airport
  - ✓ 2.5-Hr Drive from ShangHai HongQiao Airport
- ➢ Facility Space: 195,000 Ft<sup>2</sup>
- Products: Battery Pack, ESS

#### ZhenJiang Factory



#### IATF-16949



#### **High-Tech Enterprise**



#### 38 Patents

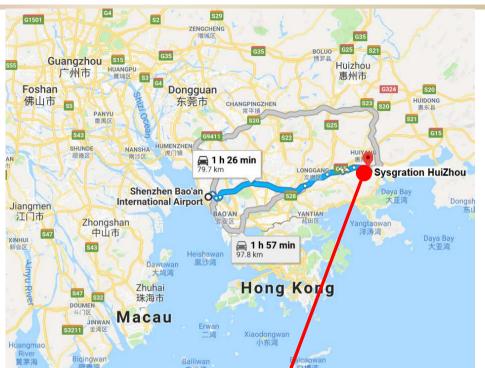
TATE INTELLECTUAL PROPERTY OFFICE		
	专利登记簿	副本
专利号:21.201520343552.2		证书号:4712397
1 著录项目		
実用 新型 名称: 申 请 日: 授 权 日: 主 分 类 号: 发 明 人:	参功能电动车电地盘 2015年05月25日 2015年11月04日 B62M 6/90(2010.01) 许四清	
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11法律状态		
专利权有效		
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专利权授予 授权公告日:2015年	11月04日	
<b>专利权的转移</b> 专利权转移	四清	ARREN
原专利权人名称:许		人民共和国国家知识产权
原专利权人名称:许	419	20164-08/116日

# China Factory – HuiZhou

# **SYSGRATION**

Location: HuiZhou, GuangDong, China

- ✓ 1.5-Hr Drive from ShenZhen Airport
- ➢ Facility Space: 76,000 Ft<sup>2</sup>
- Products: TPMS, Smart Home Devices





High Speed SMT Line



Auto Insertion Line



HuiZhou Factory

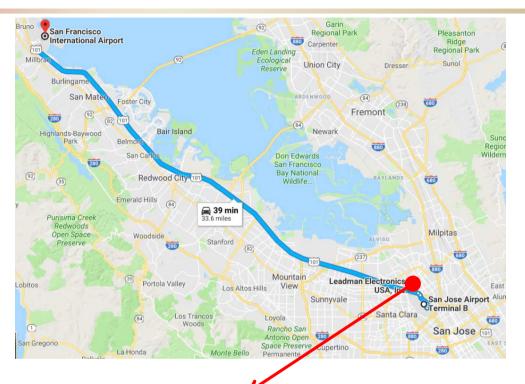
# USA Factory and Service Center SYSGRATION

Location: Santa Clara, California, USA

- ✓ 10-Min Drive from San Jose Airport
- ✓ 40-Min Drive from San Francisco Airport

➢ Facility Space: 53,000 Ft<sup>2</sup>

Products: High Performance Servers, Networking Solutions, Data Center, Cloud Computing, Data Center

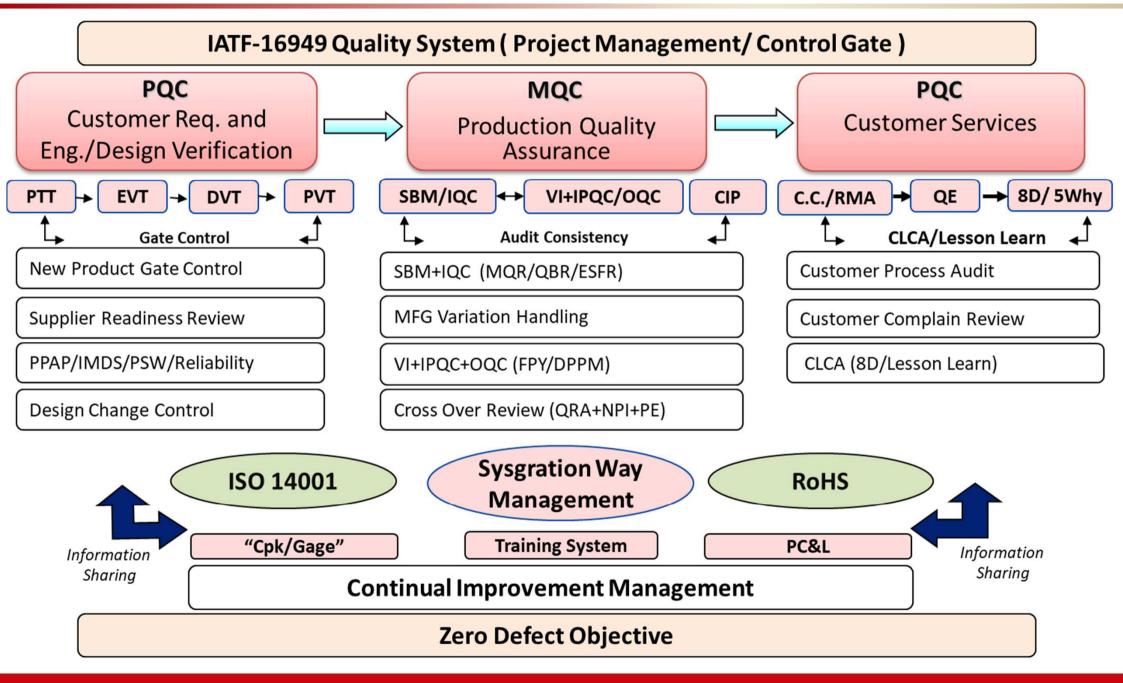




Leadman Electronics, Inc.

### **Quality System**

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### Certificates

**SYSGRATION** 

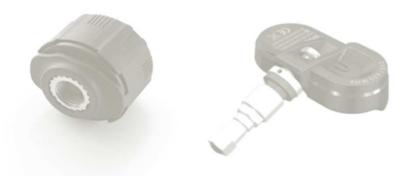
All Major Manufacture Sites Have ISO-9001:2008, ISO 14001:2004, SA 8000, IECQ QC 08000, and IATF-16949 Certificates.

NanKang Factory Got Volkswagen A+ Rating (92 Points).



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# Tire-Pressure Monitoring System (TPMS) Solutions





### **TPMS Solutions**

# **SYSGRATION**



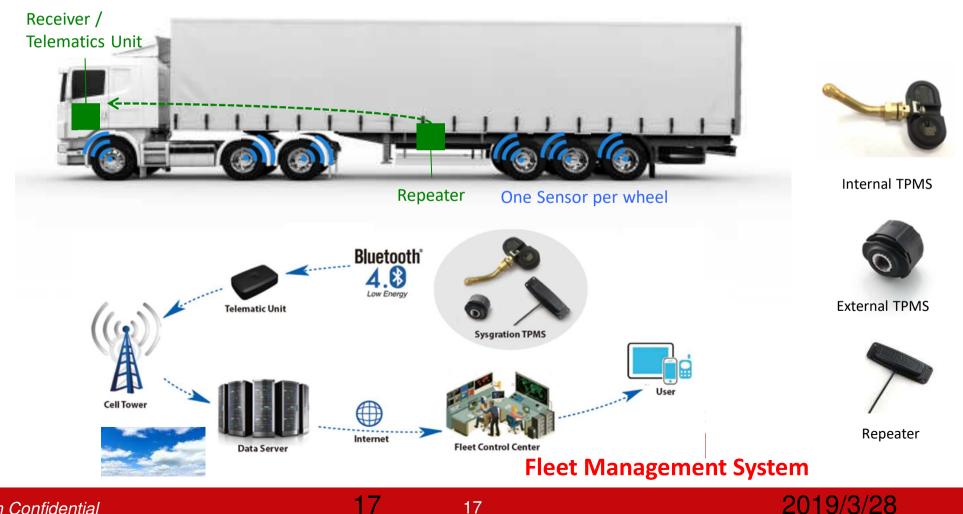


## **Fleet Management Solutions**

#### Easy Integration into Fleet Management System Via **BLE**

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- Supports up to 38 wheels \_
- Max. pressure 185 psi
- Repeater for wireless range extension
- Voice warning or display warning
- Anti-theft patent for external type
- T-Valve for easy inflation



**BLUE-Sensor** 





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# Recreational Vehicle Smart Control System

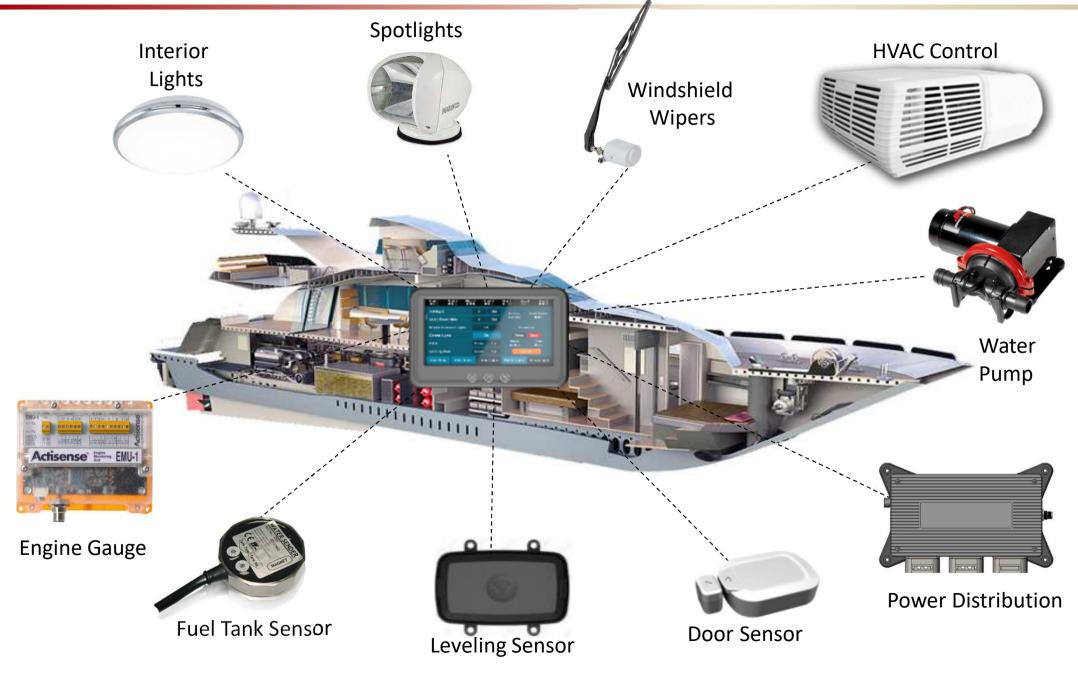


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# **RV Appliances Control System SYSGRATION**



# Marine Central Control System **SYSGRATION**

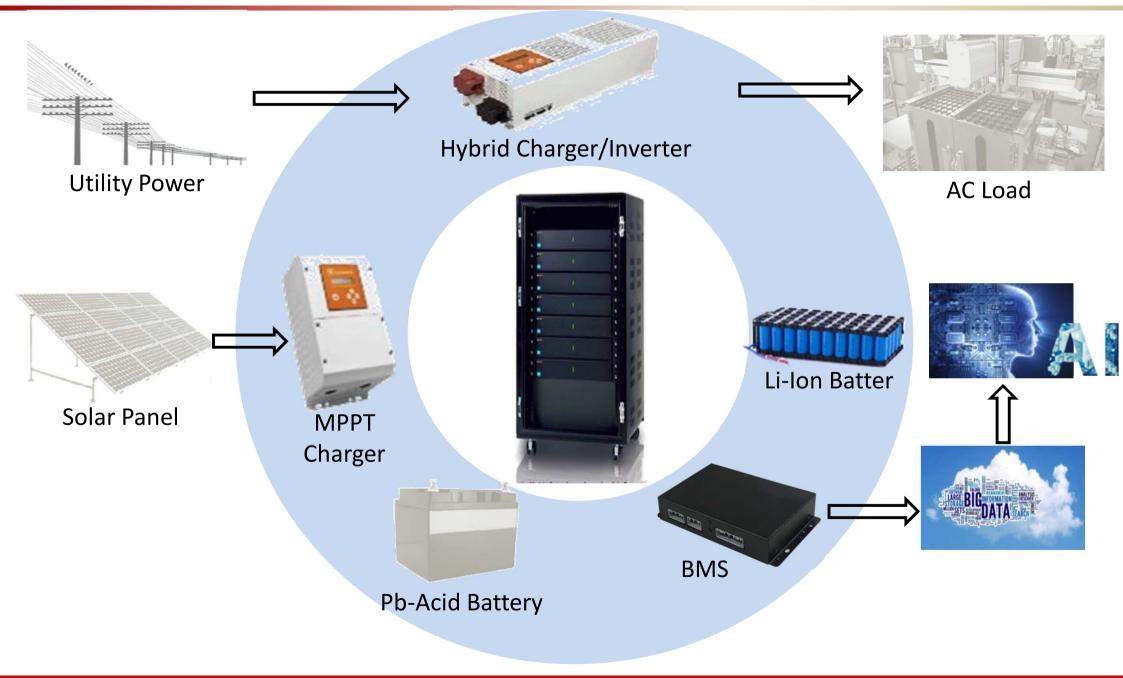


#### **SYSGRATION**

# 儲能系統 Energy Storage System (ESS)

#### **ESS Key Modules**

# **SYSGRATION**



#### **Focused on Industrial APP.**

## **SYSGRATION**



Optics



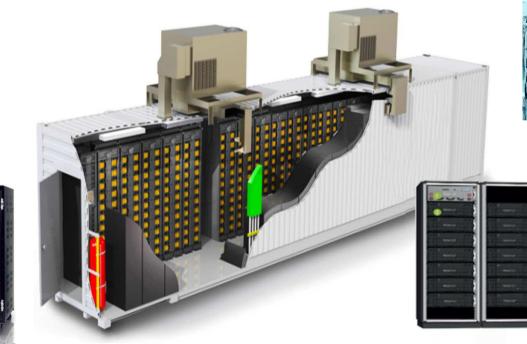
Semiconductors



LCD



CNC Machinery





Hospital

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**SYSGRATION** 

Battery Backup PSU 300W~ 550W











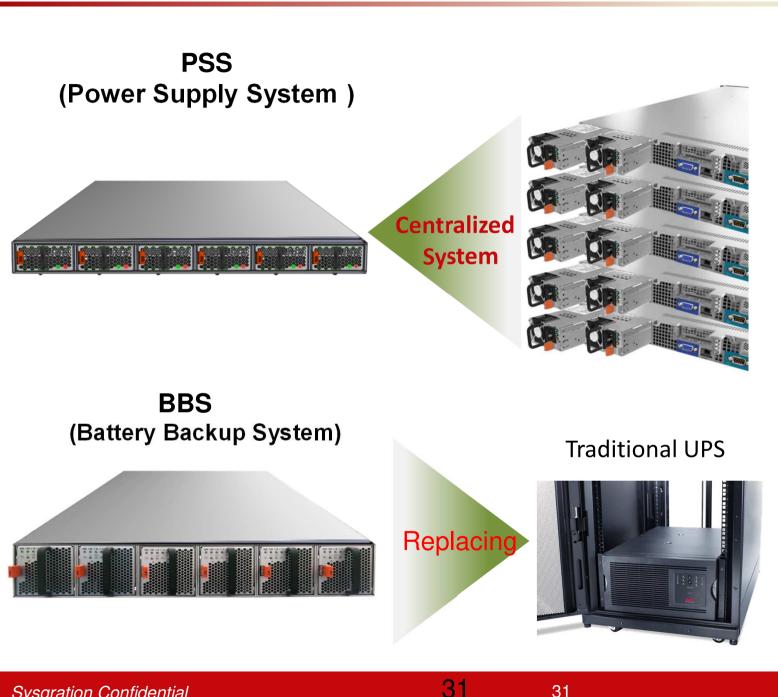


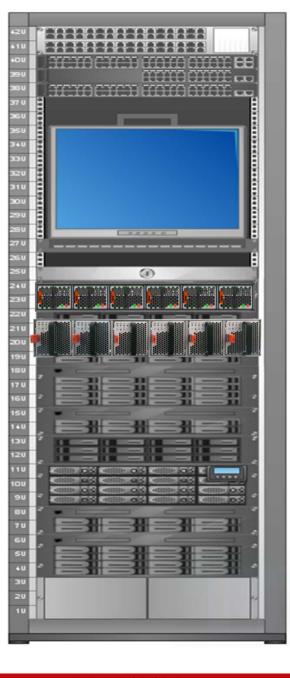
# **SYSGRATION**

# HyperScale DataCenter Power Solutions

#### Centralized Power System

# SYSGRATION









Front View of Centralized PSS

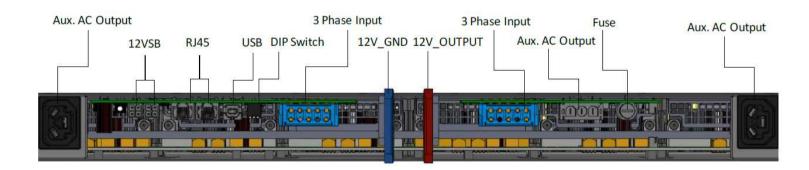
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#### **Power Supply System**

✓ Dual 3-Phase with 5 wires @ 380Vac inputs
 ✓ 5+1 Redundancy = 15KW+3KW
 ✓ 3KW PSU Module
 ✓ Hot-swappable







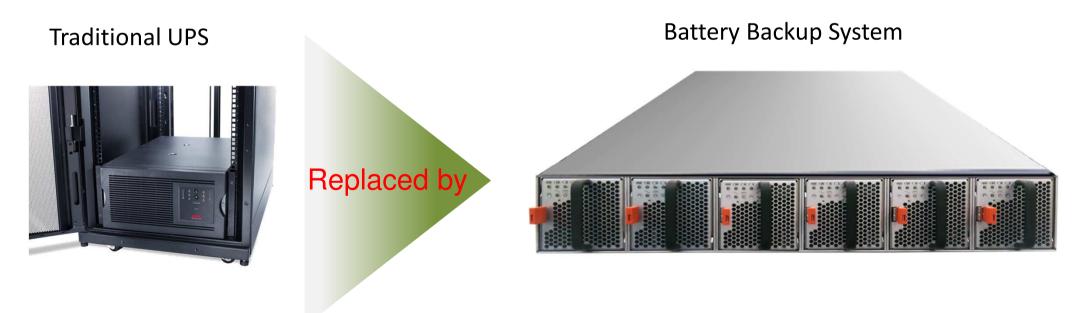
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### Front View of Battery Backup System **SYSGRATION**

#### **Battery Backup System vs. Traditional UPS**

- ✓ Power Backup Device up to 15KW > 3 Minutes
  ✓ BBS Adopts Li-Ion Battery with 13S/4P Configuration
  - Redundancy- Fault Tolerance
  - Maintainability- Hot-swappable Module
  - Extended Life Cycle
- ✓ Peak Load Assistant of Power Surge Demand



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# AC to DC Power Supply System (PSS)

#### AC to DC Power Supply System

# **SYSGRATION**



#### **Power Consolidation in a Rack**

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#### **Traditional Server Power Configurations**

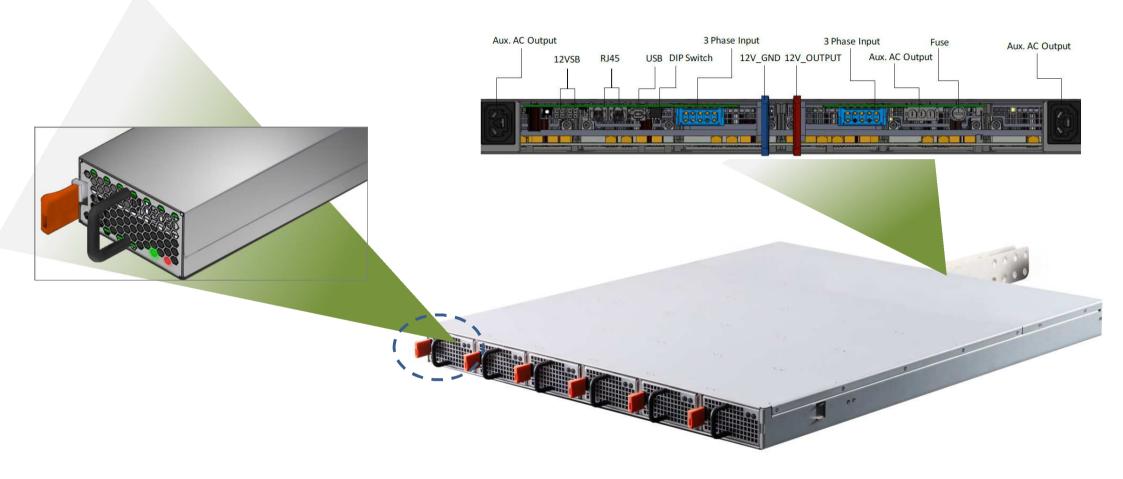


#### Centralized System





# Zoom in of Power Supply Unit SYSGRATION



#### ■ 5+1 Redundancy > up to 18KW ■ 3KW PSU Module ■ Hot-Swappable

#### **SYSGRATION**

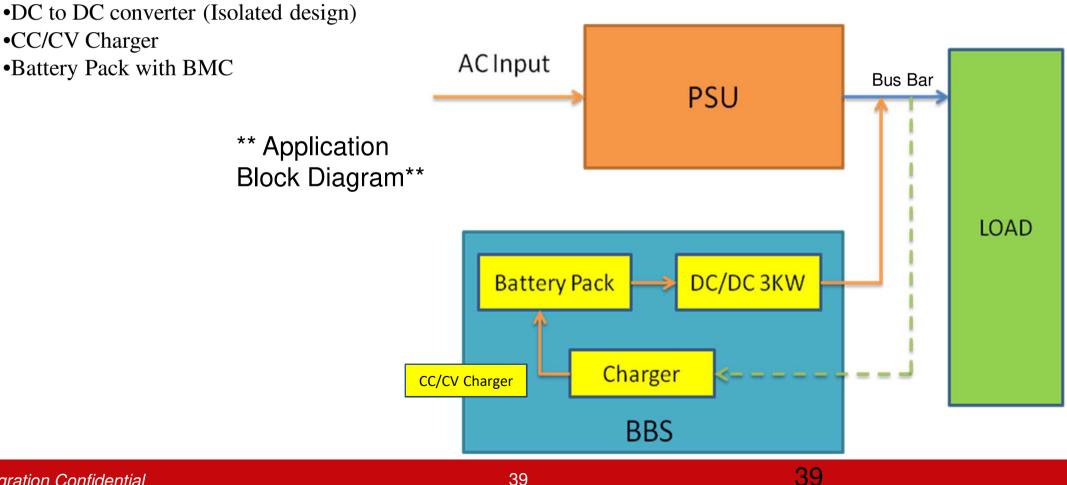
# Battery Backup System (BBS)

#### **Product Description and Features**

#### The Battery Back-up System (BBS)

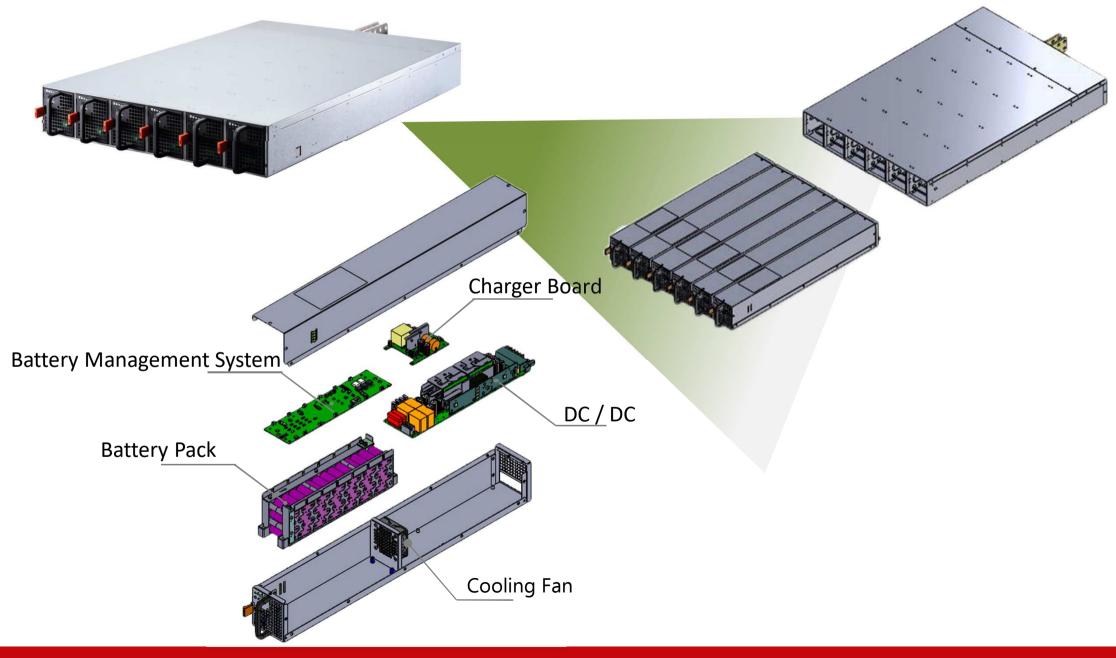
•Power Backup Device up to 15KW •Li-Ion BBS with13S4P configuration •Single-voltage 12.2V typical output voltage (with cells at typical 3.6V). •Open 2U rack form factor align with OCP Standard or 19"

#### **Battery Backup System contains:**



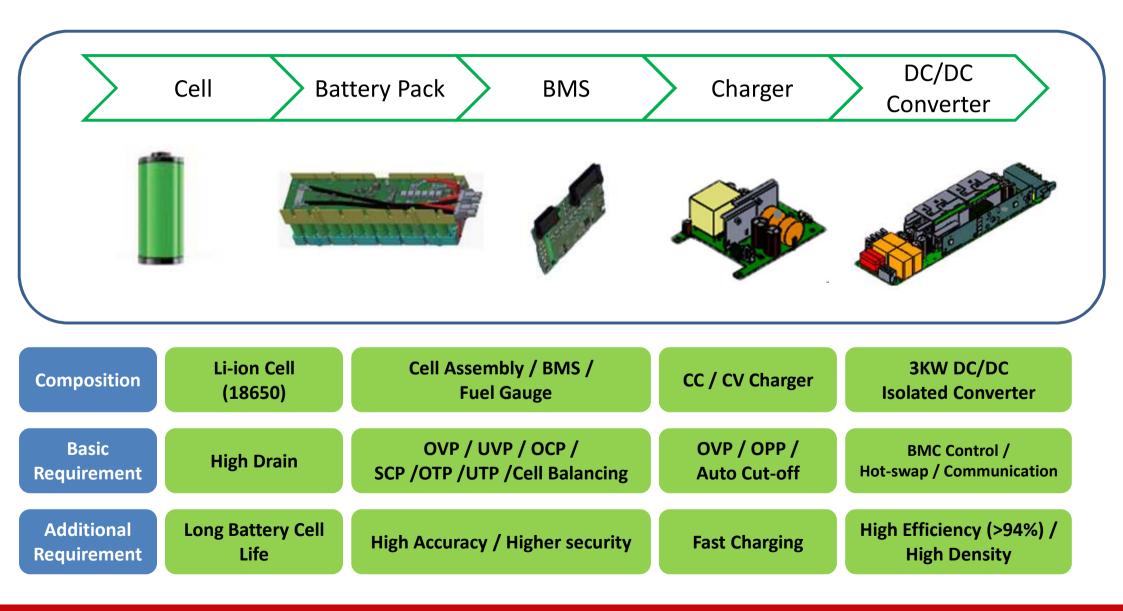
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#### Battery Backup System Composition SYSGRATION





#### For Data Center and Cloud Computing Application

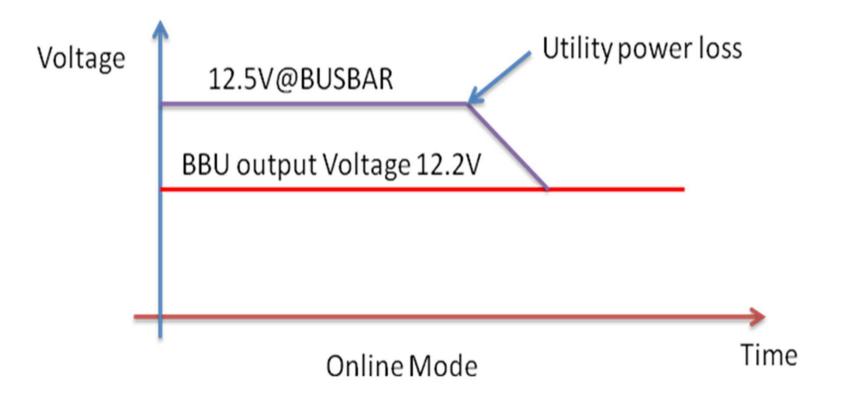


## **BBS On-Line Mode Operating**

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The BBS will be triggered to take over the overall power loading:

- 1) AC utility source in an abnormal condition
- 2) AC power shelf is disabled and the output voltage dropped to 12.2V



### **Taiwan Factory**

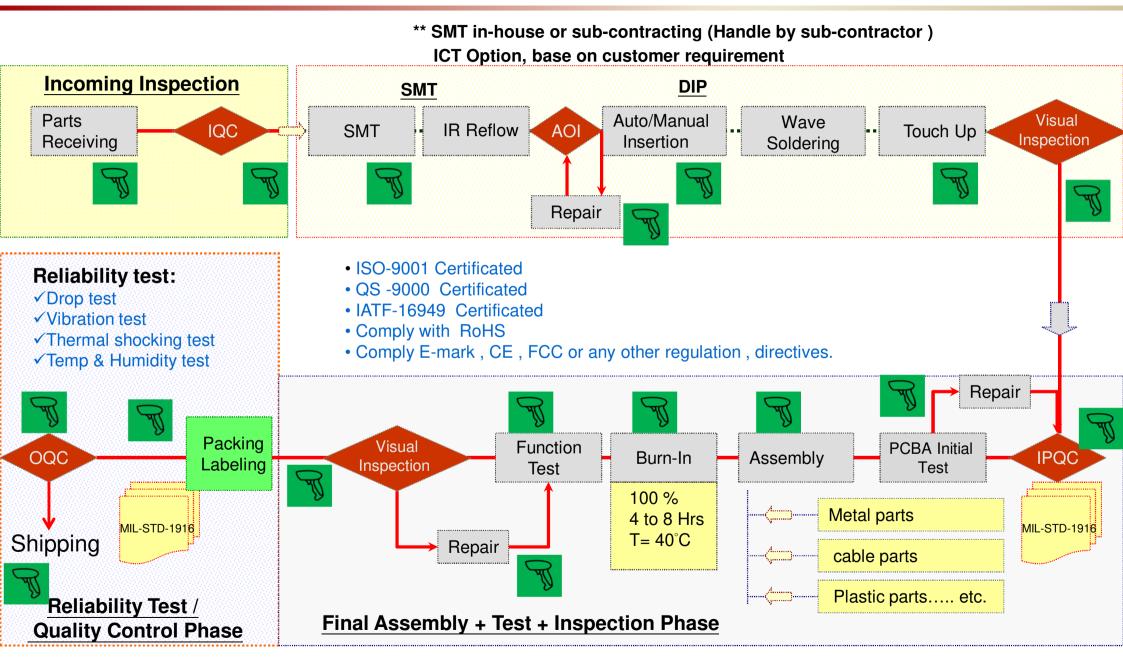
# **SYSGRATION**



- •Total Space : 33,000 M2
  - Building 1 (1 Floor)
  - Building 2 (9 Floors)
- Production: 2 Storey
  - > 1 Storey : PCBA
  - > 2 Storey : System Assembly
- Warehouse: 2 Storey
- Shipping Dock: 1 Storey
- Employees: 150+ people
- 6 Storey reserved

### **Production Flow Chart**

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#### **Production Facilities-1**

# **SYSGRATION**



**SMT Line** 

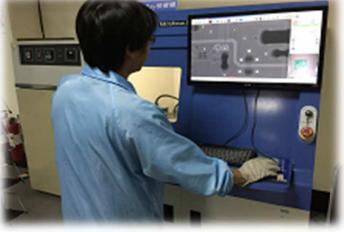
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**Reflow Measure** 



**BGA Rework** 



**SMT X-Ray Inspection** 



**AOI Inspection** 

#### **Production Facilities-2**

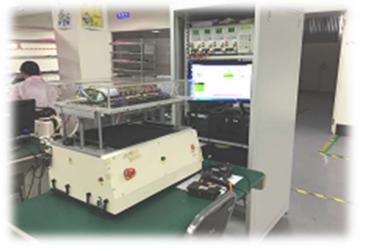
# **SYSGRATION**



**DIP** Line



**Wave Soldering** 



**Automatic Testing Equipment** 



**Automatic Testing Equipment** 



### **SYSGRATION**

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