

Company Introduction

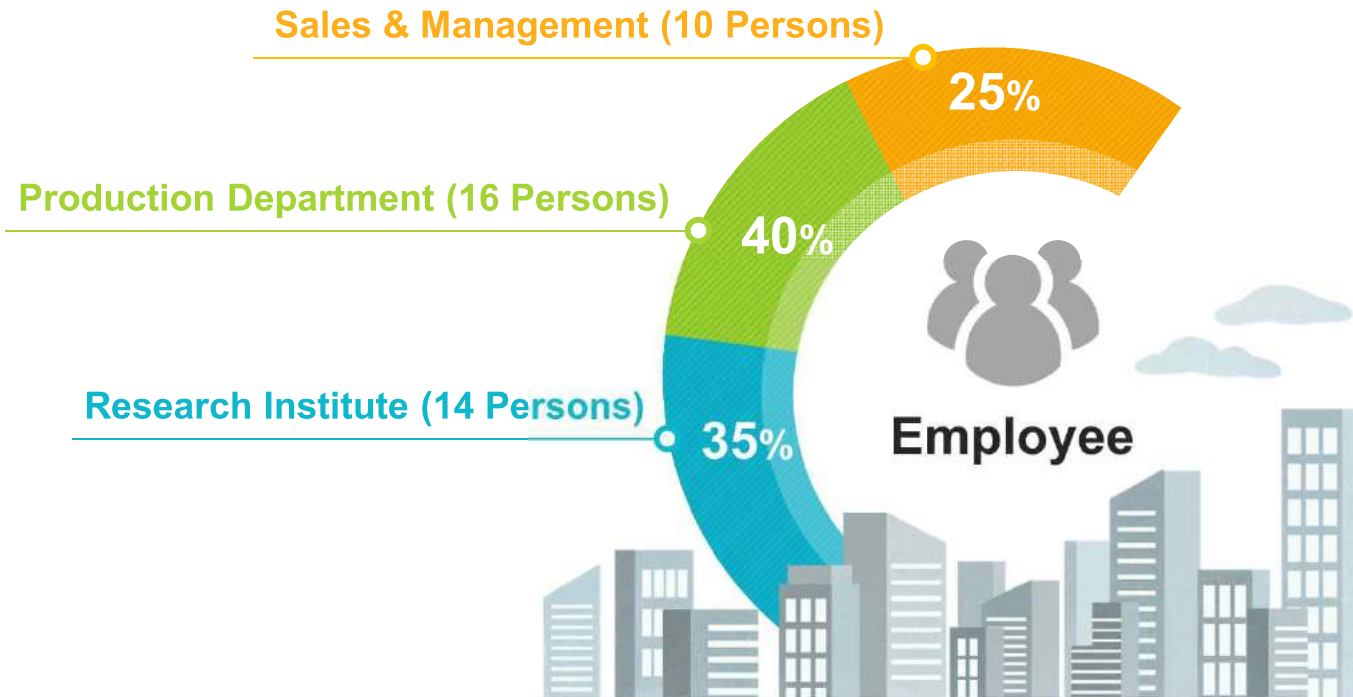


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COMPANY OVERVIEW



MisumSystech Co., Ltd.

Foundation | Feb 2, 2006

C E O | Chang-Lyeol Cheon

C a p i t a l | USD500,000

A s s e t | USD100,000,000

E m p l o y e e | 40 Persons

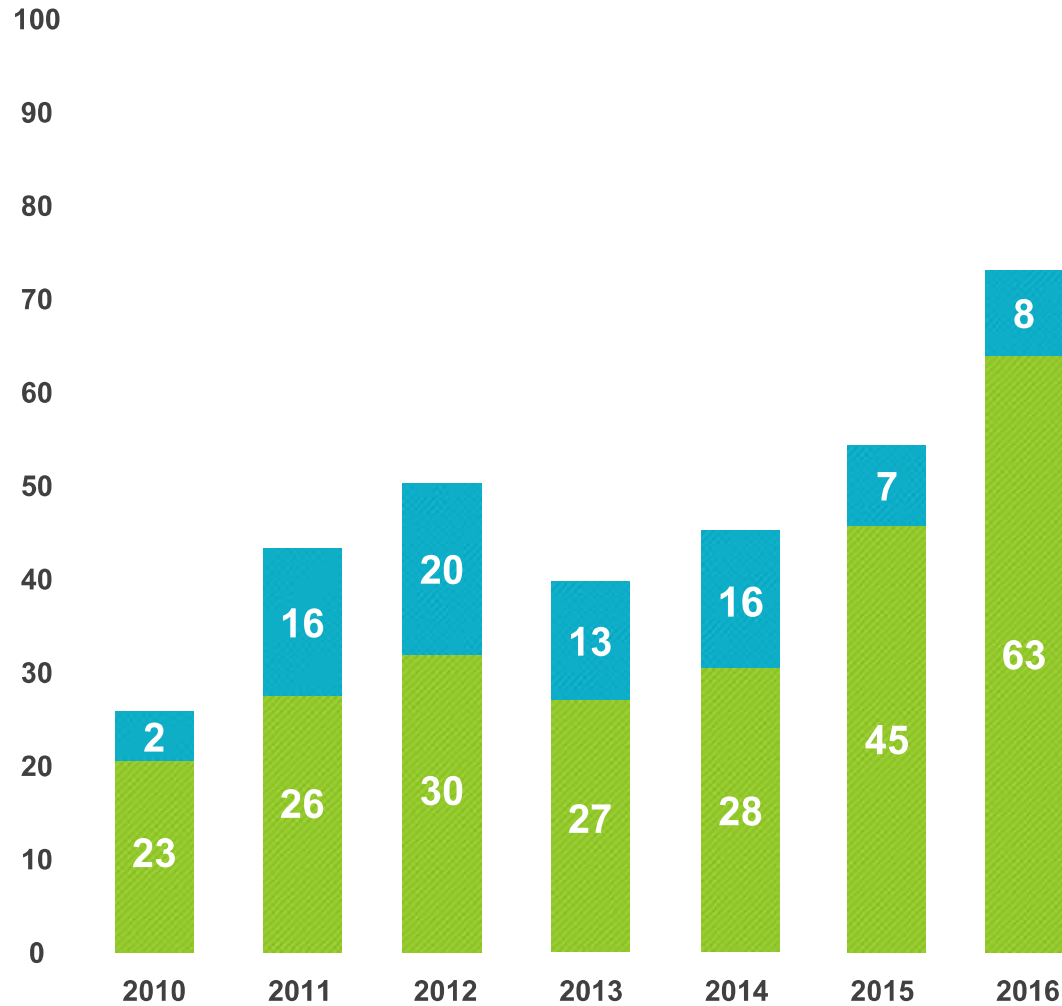
A d d r e s s | 12-20, Simin-daero 327beon-gil, Dongan-gu,
Anyang-si, Gyeonggi-do, Rep. of KOREA

C o n t a c t | +82-31-689-5006

W e b s i t e | www.misum.co.kr

Overseas Domestic

(Unit : USD100,000)



Domestic Clients

- LG Chemistry
- SamasungSDI
- KEPCO
- LS Mtron
- Korea Expressway
- POSCO
- SK Innovation
- SKME
- KEYANG
- SAMCHULY
- NEXCONTECHNOLOGY
- POWERLOGICS
- ITM SEMICONDUCTOR
- DY

Overseas Clients

- SONY (China)
- SCUD (China)
- C-Tech (China)
- Unicaba (Brazil)
- Inventus Power (Brazil)
- Edison Power (Japan)

- ✓ Li-ion
- ✓ Li-Polymer
- ✓ LiFePO₄
- ✓ LTO(Li₄Ti₅O₁₂)
- ✓ Redbox Flow
- ✓ NaNiCl₂

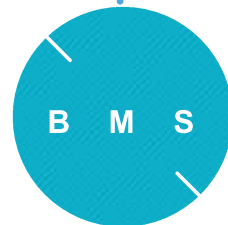
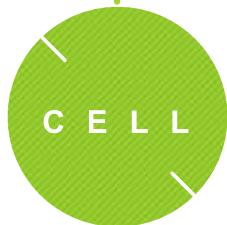
Battery Suppliers

- ✓ Circuit Design
-OrCAD
- ✓ PCB Artwork
-PADS
- ✓ LiFePO₄
-IAR/ MPLAB
(C-Language)

2 BMS Design, R&D

- ✓ Battery Pack Design
-CATIA, AutoCAD
- ✓ Software Design
-Visual Basic

3 Pack Design, UI



1 Module Design

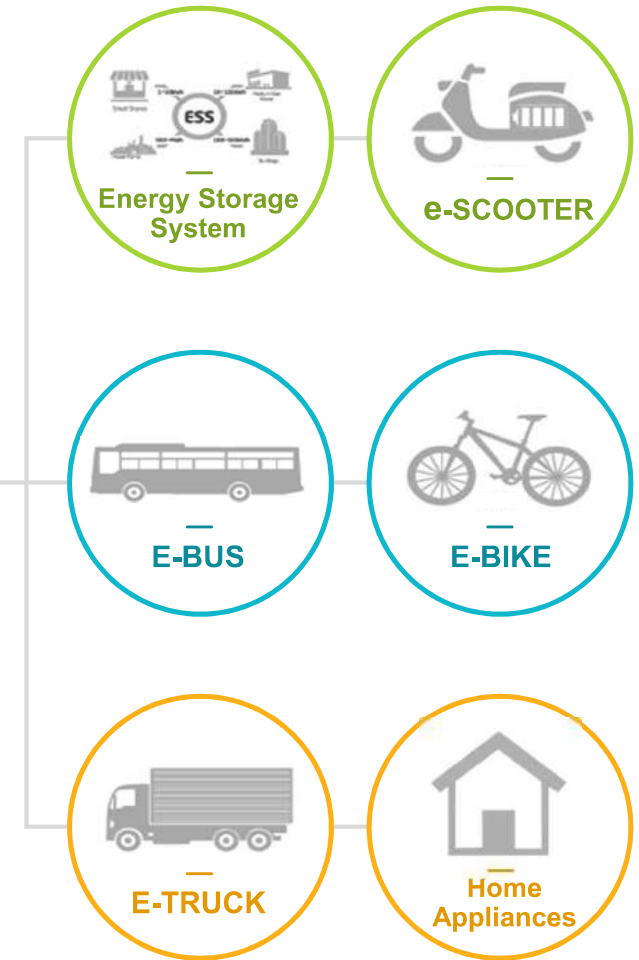
Laser Welder Spot Welder

4 BMS Inspection

BMS Tester

5 Pack Ass'y, Test

Battery Pack Tester



Codeless Mop Cleaner



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 31.6Wh (14.4V/2.2Ah)
- ✓ Configuration : 4S1P
- ✓ Protection Circuit Module

Electrical Tool



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 72Wh (18V/4Ah)
- ✓ Configuration : 5S2P
- ✓ Protection Circuit Module

Lawn Trimmer



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 118.8Wh (18V/6.6Ah)
- ✓ Configuration : 5S3P
- ✓ Protection Circuit Module

Kickboard



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 1.2kWh (50.4V/24.0Ah)
- ✓ Configuration : 14S8P
- ✓ Protection Circuit Module

e-Bike



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 378Wh (36V/10.5Ah)
- ✓ Configuration : 10S3P
- ✓ Protection Circuit Module

e-Scooter



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 3.45kWh (72V/48Ah)
- ✓ Configuration : 20S16P
- ✓ Battery Management System



Road Sweeper



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 24kWh (48V, 461Ah)
- ✓ Configuration : 7S162P x 2 Packs
- ✓ Battery Management System



Micro Mobility



- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 6.11kWh (51.1V, 119.7Ah)
- ✓ Configuration : 14S42P
- ✓ Battery Management System



Golf Cart

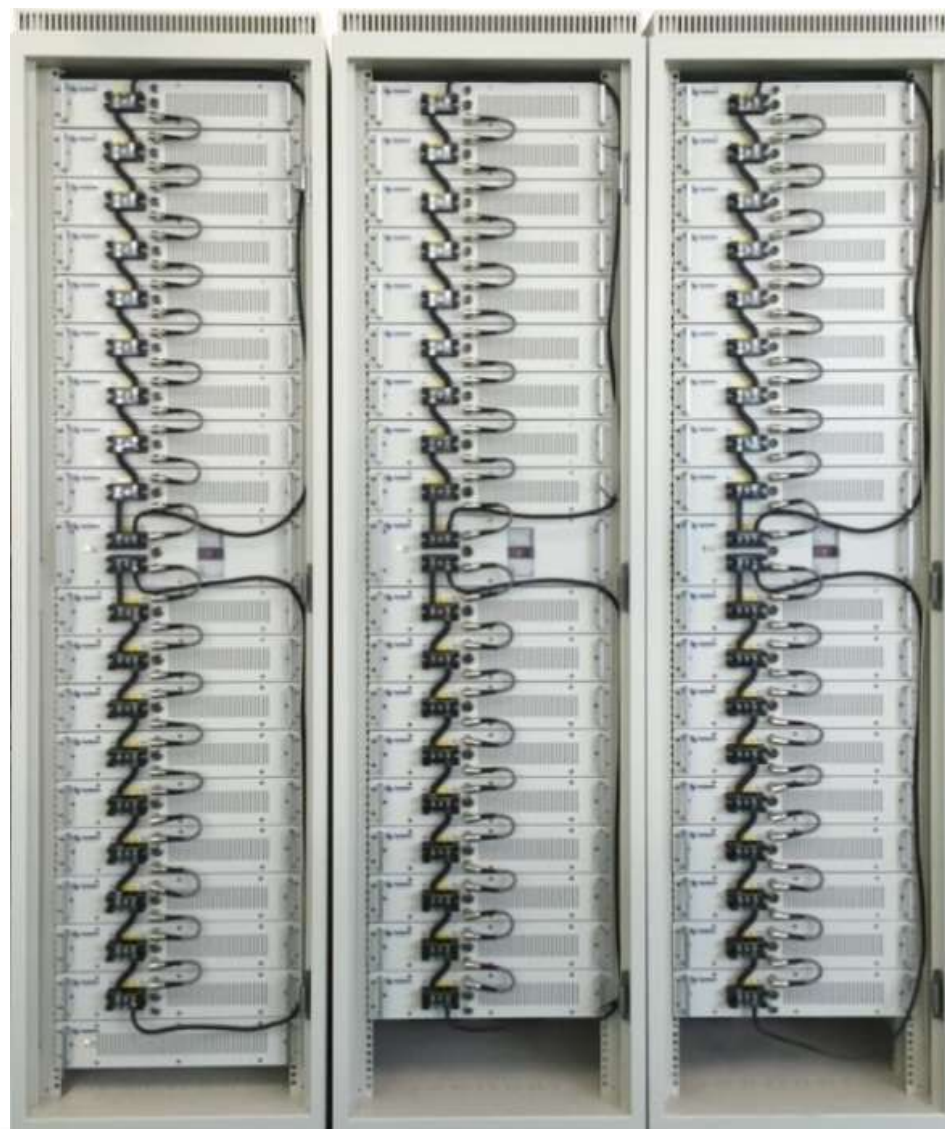


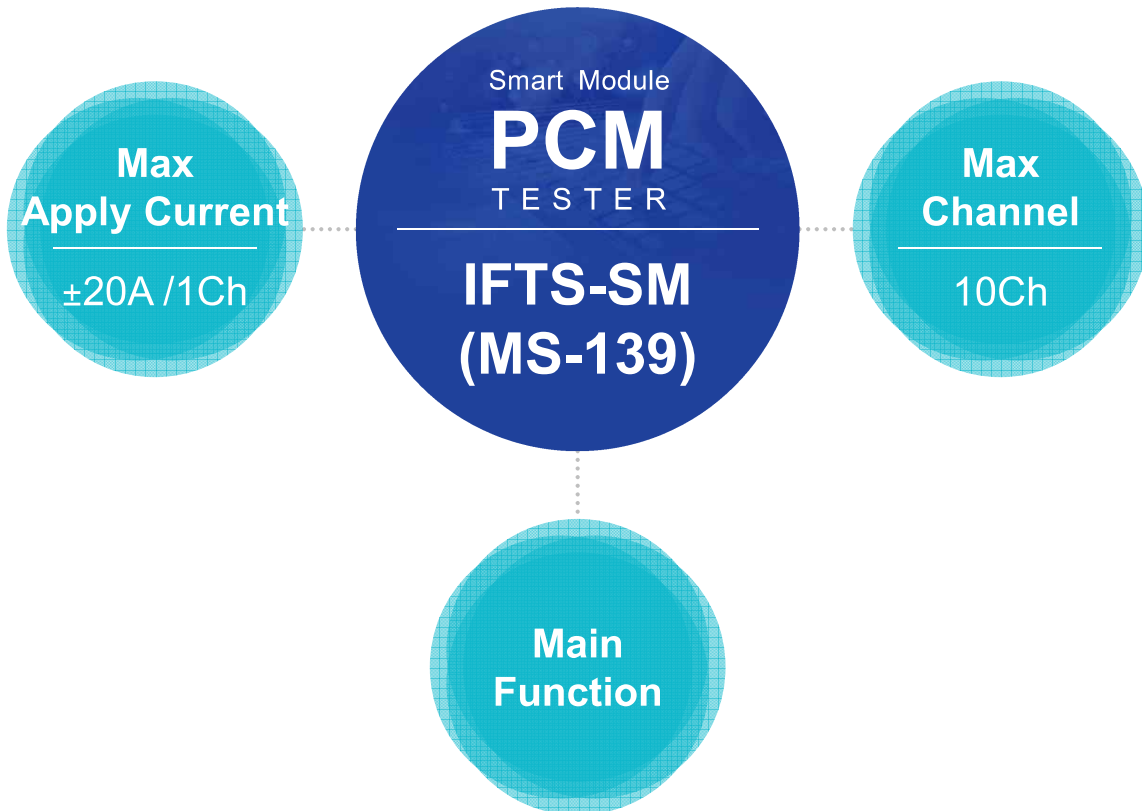
- ✓ Cell : Li-ion 18650 (NCM)
- ✓ Capacity : 5.8kWh (51.1V/114Ah)
- ✓ Configuration : 14S40P
- ✓ Battery Management System

Energy Storage System



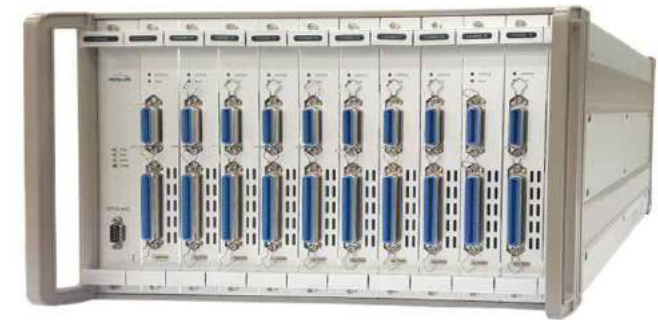
- ✓ **Capacity** : 116.1kWh (460.8V, 252Ah)
- ✓ **Cell** : LFP (3.2V, 21Ah)
- ✓ **Tray**
Cell 16S2P, 2.15kWh (51.2V/42Ah)
- ✓ **Rack**
Tray 9S2P, 38.7kWh (460.8V/84Ah)
- ✓ **System**
Rack 3P, 116.1kWh (460.8V/252Ah)
- ✓ **Project**
Mozambique Microgrid (2015)





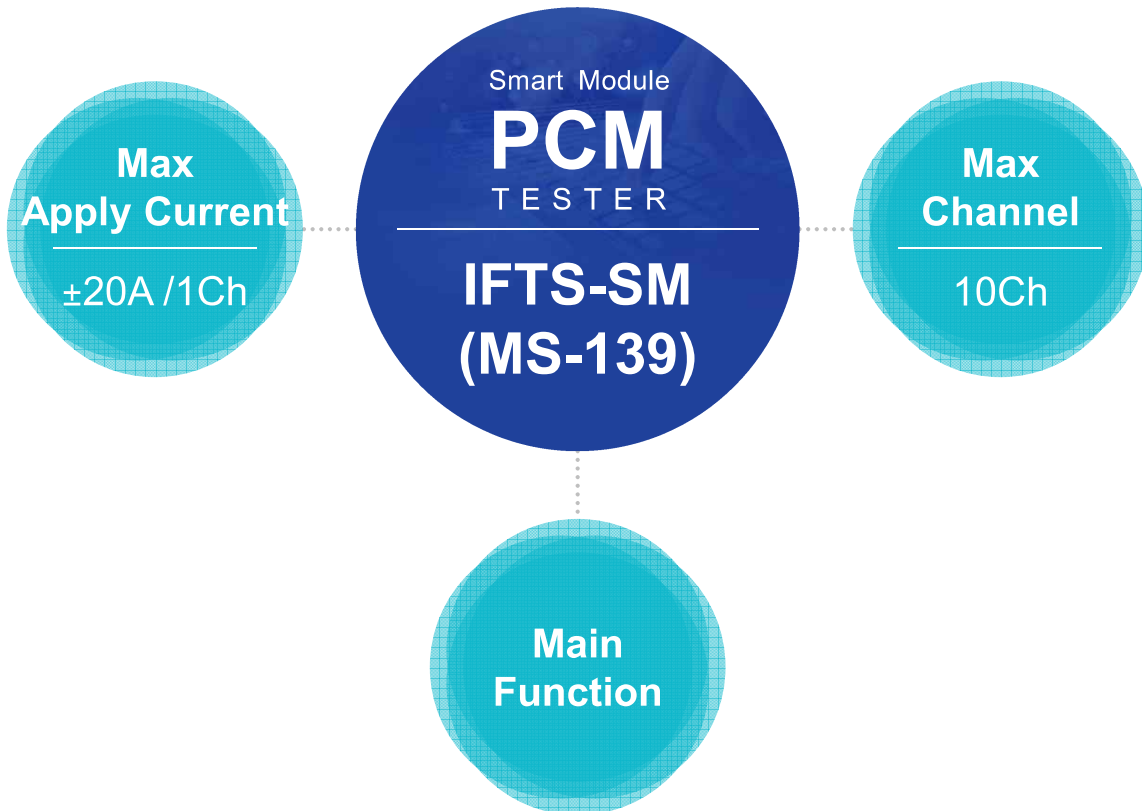
- ✓ OVP
- ✓ UVP
- ✓ OCP
- ✓ Short Circuit Current
- ✓ 2nd Protection
- ✓ IDR & THR
- ✓ CO/DO FET Control
- ✓ Consumption Current
- ✓ Data Flash Write & Read
- ✓ S/N Write & Verify

10 Channels



Software





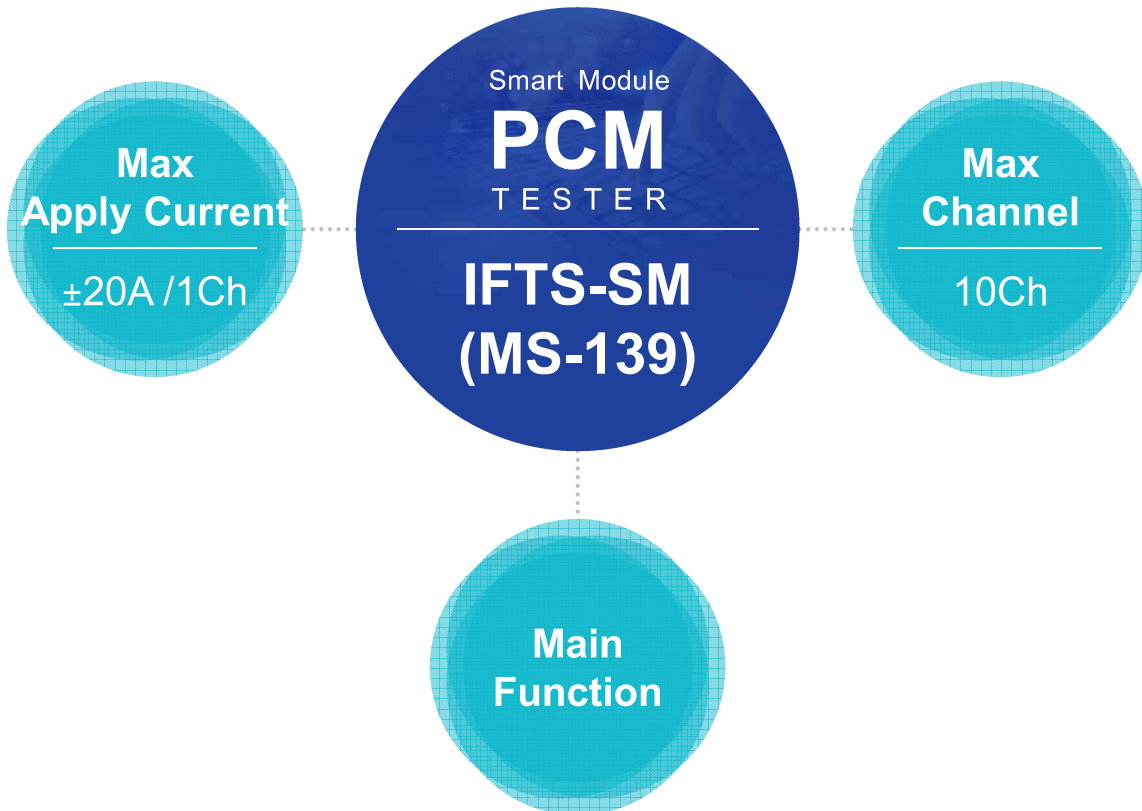
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10 Channels



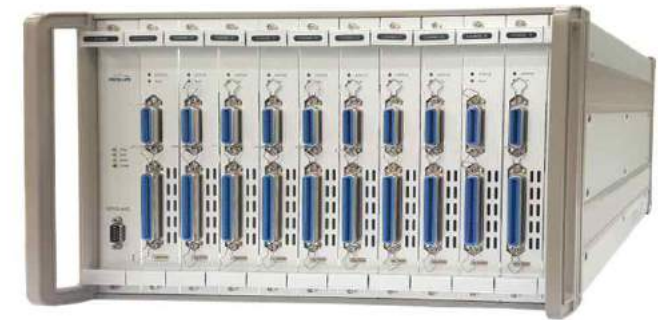
Software





- OVP
- UVP
- OCP
- Short Circuit Current
- 2nd Protection
- IDR & THR
- CO/DO FET Control
- Consumption Current
- Data Flash Write & Read
- S/N Write & Verify

10 Channels



Software



Max
Apply Current

±17A /Cell

4~24 Cell

BMS
TESTER

IFTS-BM
(MS-159)

F/W &
Calibration
Tester

Function
Tester

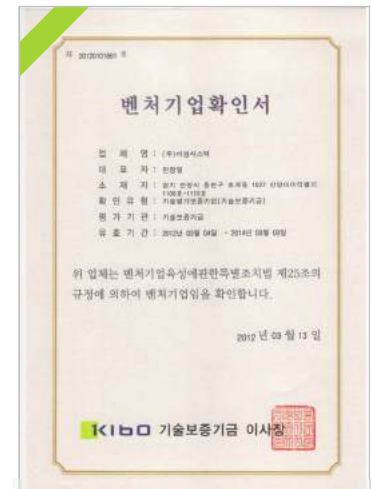
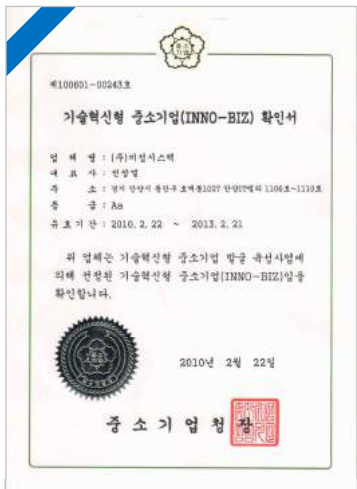
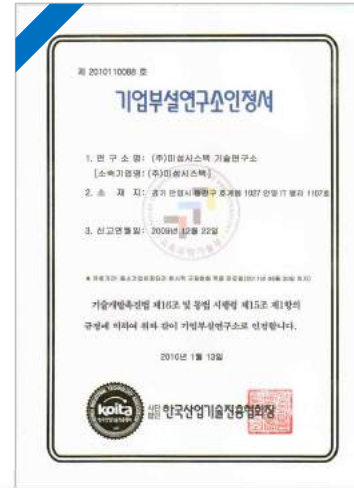
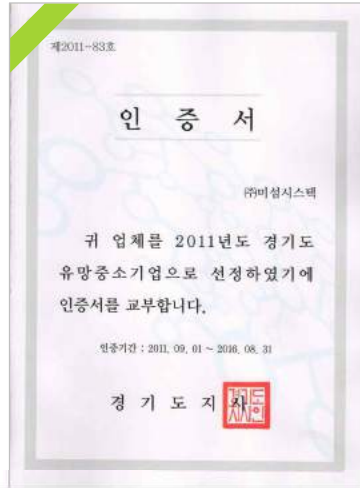
- ✓ Cell OVP, UVP
- ✓ Cell OVP, UVP
- ✓ Pack OVP / UVP
- ✓ COCP / DOCP
- ✓ COVP / DOVP
- ✓ Over/Under Temp.
- ✓ Accuracy V / I / T(16) LED
- ✓ Wake Up & Initialization
- ✓ VCC/Vpwr
- ✓ Consumption Current
- ✓ Balancing
- ✓ IDR/THR
- ✓ Manufacture Date

1 Channel



Full Set (3CH)





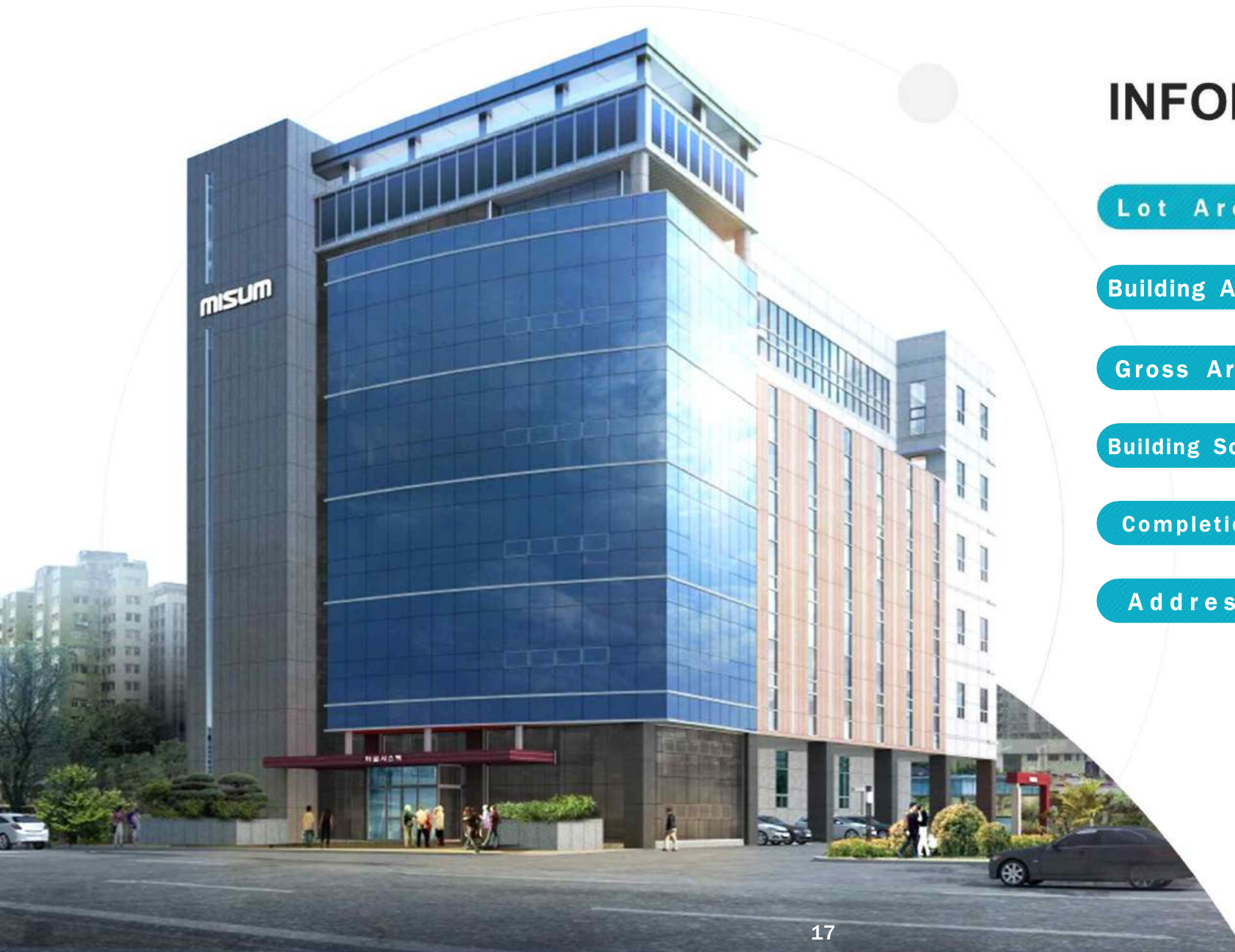


Entrance



Parts

Assemble /
TestAssemble /
TestLaser
WeldingProjection
Welding



INFORMATION

Lot Area 1,981m²

Building Area 1,083m²

Gross Area 7,805m²

Building Scale Underground 1F, Ground 7F

Completion July, 2016

Address Anyang-si, Gyeonggi-do

THANK YOU