



We provide
BATTERY POWER SOLUTION
for Li-ion Battery / EDLC
to You!

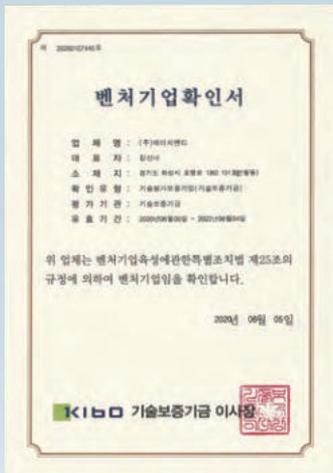
Why HNT?

New Vision for Sustainable Management!

HNT Co.,Ltd. is oriented to develop products for the people and the environment. We will do our best to contribute for the co-prosperity of the world and mankind by continual investment on R&D area and commercializing the products of lithium ion secondary cell for EV, HEV, and PHEV, EDLC mass production charging and discharging systems, pack test system, and energy storage system such as charging systems for electric vehicles.

【Major Business】

- Formation System for Li-ion Battery/EDLC
- Pack Test System for Automotive
- Battery Management System for Automotive
- Cycle Test System for Li-ion Battery/EDLC
- EV Charging System



History

2003

Found HNT

2004

Development of Small LiB Square Formation System

2005

Development of Small LiPb Square Formation System

2006

Development of Small LiB Cylindrical Formation System

2007

Development of Small LiB II Cylindrical Formation System

Development of small battery cycle test system

2008

Development of Formation System for HEV

Established corporate research institute

Registered as a first-tier supplier for Samsung SDI

Acquired ISO9001, ISO14001

2009

Development of Formation System for EV

Development of Cycle Test System for EV

2010

Development of Pack Cycle Test System for EV

2011

Venture company certification

Development of Pack EOL Test System for EV

2012

Started trading with Samsung SDI Malaysia plant (SDIEM)

2013

Started trading with Samsung SDI China Cheonji Factory (TSDI)

Registered as a partner of Samsung Electronics

2019

Registered as a partner of POSCO Chemical

2020

Venture company, Innobiz re-certification

Registered as a partner of LG Energy Solution



Formation System for Li-ion Battery



»» Features

- High-accuracy and high-stabilized formation system
- Production management program interface
- Provide formation cell information and data analyzing program
- Manual operation and maintenance program
- Provide User-defined program
- Consists of User-defined channels
- Auto Operating Jig System
- Cylinder/Prismatic/Polymer/Coin cell Test Jig
- CC, CV, CC/CV, CP
- Various Safety Function
- 1~2 Range Operation
- Uses CPU exclusively for controlling
- 100ms Data Sampling Rate
- Auto Calibration
- DC_IR / Temperature
- Temperature monitoring and uniformed system
- Provides Tray/Stacker Crane/Server System

»» Specification

Item	Specification	Remark
Charging & Discharging Voltage range	0V ~ 5V	
Charging & Discharging Current range	0A ~ 100A	2 ~ 3Range
Charging & Discharging mode	CC, CV, CC/CV, CP	
Resolution	16Bit	
Voltage Accuracy	±0.04%	
Current Accuracy	±0.1%	Full Scale
Safety function	OVP, OCP, OTP, EMG S/W	



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Formation System

for Li-ion Battery for Automotive Battery / EDLC



»» Features

- High-accuracy and high-stabilized formation system
- Production management program interface
- Provide formation cell information and data analyzing program
- Manual operation and maintenance program
- Provide User-defined program
- Consists of User-defined channels
- Auto Operating Jig System
- CC, CV, CC/CV, CP
- Various Safety Function
- 3 Range Operation
- Uses CPU exclusively for controlling
- 100ms Data Sampling Rate
- DC_IR / Temperature
- Temperature monitoring and uniformed system
- Provides Tray/Stacker Crane/Server System

»» Specification

Item	Specification	Remark
Charging & Discharging Voltage range	0V ~ 5V	
Charging & Discharging Current range	0A ~ 300A	2 ~ 3Range
Charging & Discharging mode	CC, CV, CC/CV, CP	
Resolution	16Bit	
Voltage Accuracy	±0.04%	
Current Accuracy	±0.1%	
Safety function	OVP, OCP, OTP, EMG S/W	
Optional	Low contact Resistance Probe Jig	



Cycle Test System for Li-ion Battery / EDLC



»» Features

- High-accuracy and high-stabilized cycle test
- User friendly interface program
- Various analyzing programs for quality assessment and R&D
- Module consisting from 10, 20, 40 channels
- CC, CV, CC/ CV, CP
- Cylinder/Prismatic/Polymer/Coin cell Test Jig
- 2~4 Range Operation
- Uses CPU exclusively for controlling
- 100ms Data Sampling Rate
- DC_IR / Temperature

»» Specification

Item	Specification	Remark
Charging & Discharging Voltage range	0V to 5V	※Option: Minus Discharging
Charging & Discharging Current range	100mA, 10A, 50A, 100A, 300A, 600A, 1,800A	Max Current, Range : 2 to 4
Charging & Discharging mode	CC, CV, CC-CV, CP	
Resolution	16Bit	
Voltage Accuracy	± 0.04%	
Current Accuracy	± 0.1% or ± 0.05%	Full Scale
Safety function	OVP, OCP, OTP, EMGS/W	
Optional	Temperature measurement Battery JIG (Coin, cylindrical, laminate type etc.)	



Pack Test System for Automotive



»» Features

- Energy Saving by discharge energy regeneration
- High efficiency, high power pack charge/discharge system
- High-accuracy and high-stabilized cycle test
- User friendly interface program
- Various analyzing programs for quality assessment and R&D
- Module consisting from 1 to 5 channels
- High-capacity cell test by parallel channel
- BMS / CAN Communication
- CC, CC-CV, CP, Simulation mode(Pattern mode)
- 1~4 Range Operation Option
- 100ms Data Sampling Rate
- DC_IR / Temperature
- Estimate supporting voltage/supporting temperature

»» Specification

Item	Specification	Remark
Charging & Discharging Voltage range	5V to 600V	Range:1 to 3
Charging & Discharging Current range	30A ~ 2,000A	Range:1 to 4
Charging & Discharging mode	CC, CV, CC-CV, CP	※ Option: Dynamic simulation test (Pattern)
Resolution	16Bit	
Accuracy	±0.1%	Full Scale
Safety function	OVP, OCP, OTP, EMGS/W	
Optional	Cell/Pack Volts & Temperature Measuring Other tests measuring : Pack battery DC Insulation Resistance and etc	



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Certification

HNT hold many patents for gripper system



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