

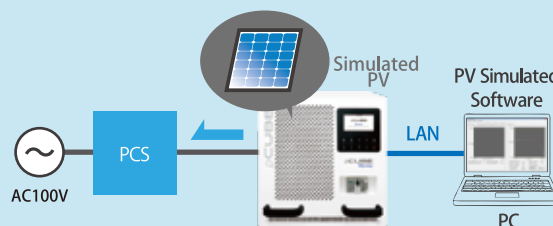
Regenerative DC Power Supply pCUBE Optional Software

# PV Simulator Software MWBFP3-PVS

## Suitable for Verification and Analysis in Smart Grid and Power Conditioner circuit

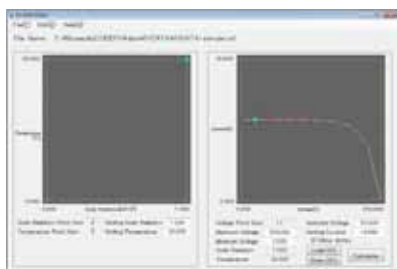
Upon LAN connection of regenerative DC power supply pCube and PC installed with PV Simulator software, pCube can be operated as a simulated solar cell panel. The characteristics of solar panel, real time IV characteristics, operating point, solar radiation and temperature can be monitored. Hence analysis and evaluation are possible in Smart Grid and Power Conditioner. One

of the special characteristic of pCUBE is the ability to connect both series and parallel, making it a suitable choice for series/parallel solar panels.



## Automatic PV Simulation with only 4 Parameters!

PV characteristic is a function of solar radiation and temperature changes. Users simply need to input 4 parameters, minimum and maximum temperature, minimum and maximum solar radiation, to set up IV characteristics. The remaining operation is automatic.



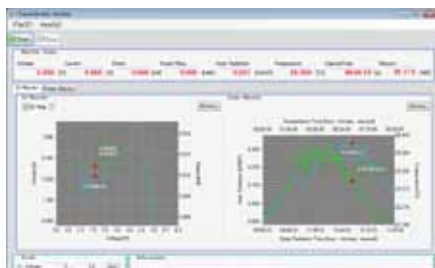
## Complicated PV characteristics, Temperature, Solar Radiation available in CSV format

IV data can be saved into CSV file. CSV file containing information on PV characteristics, temperature and solar radiation is easily imported and PV simulation is carried out.



## Real Time Data Monitor of Operating Condition

Real time monitoring of current, voltage, power, IV and PV graph upon connection with PC.



## Operation of pCUBE with Download Data

PV characteristics can be downloaded into pCUBE. After download, pCUBE can be operated as a stand alone simulated PV.



## Recommended Operating Conditions

OS : Microsoft Windows XP/7 (32bit), CPU : Intel Core2 Duo 2GHz and above, Memory Space : 2GB and above, HDD : 40GB and above, Resolution : 1024×768 and above

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The inquiry about a product, and the request for data

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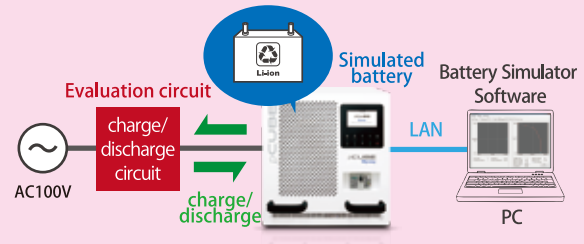
Regenerative DC Power Supply pCUBE Optional Software

# Battery Simulator Software MWBFP3-BTS

## Suitable for Verification and Analysis in Electrical Storage System and Electric Vehicles circuit

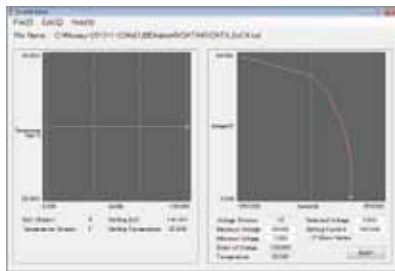
Upon LAN connection of regenerative DC power supply pCUBE and PC installed with Battery Simulator software, pCUBE can be operated as a simulated battery. The characteristics of battery, real time IV characteristics, operating point and charging rate (SOC) can be monitored. Hence analysis and evaluation are possible in electrical storage system and electric vehicle circuit. One of the

special characteristic of pCUBE is the ability to connect both series and parallel, making it a suitable choice for large storage battery simulation.



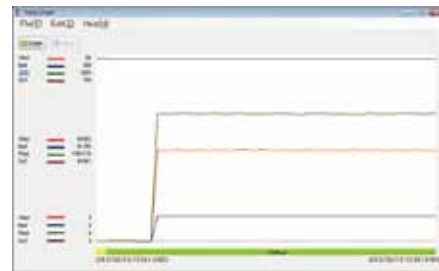
## Easy Compilation of Simulated Battery Characteristics

The exclusive IV map editor will record IV curves for each SOC. By setting SOC 0% and 100% and battery maximum capacity (Ah), the software does automatic simulation of IV characteristics.



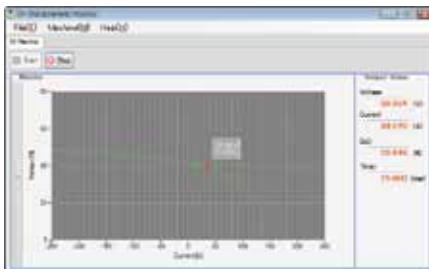
## Graphical Display of pCUBE Voltage, Current, Power and Charge Rate

Trend graphs display output voltage, current, power, charge rate of simulated pCUBE wrt time. The graph displays the latest information and transition states of each battery data.



## Real Time Data Monitor: a Powerful Analyzing Tool

Real time monitoring of IV characteristics, operating point (voltage, current) and charge rate makes the software a powerful analysis tool in development of electrical storage system.



## Co-Simulation on Multiple pCUBE with 1 PC

1 PC can perform simulation for up to 32 pCUBE units under the same LAN coverage. Start/Stop of simulations are independent operations, individual operation condition can be monitored.

No.	Name	Type	IP Address	Port	File Name	Start/Stop
1	pCUBE01	Nb	192.168.1.100	10001	Sample_Soc01.txt	Start
2	pCUBE02	Nb	192.168.1.100	10001		
3	pCUBE03	Nb	192.168.1.100	10001		
4	pCUBE04	Nb	192.168.1.100	10001		
5	pCUBE05	Nb	192.168.1.100	10001		
6	pCUBE06	Nb	192.168.1.100	10001		
7	pCUBE07	Nb	192.168.1.100	10001		
8	pCUBE08	Nb	192.168.1.100	10001		
9	pCUBE09	Nb	192.168.1.100	10001		
10	pCUBE10	Nb	192.168.1.100	10001		
11	pCUBE11	Nb	192.168.1.100	10001		

## Recommended Operating Conditions

OS : Microsoft Windows XP/7(32bit), CPU : Intel Core2 Duo 2GHz and above, Memory Space : 2GB and above, HDD : 40GB and above, Resolution : 1024×768 and above

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