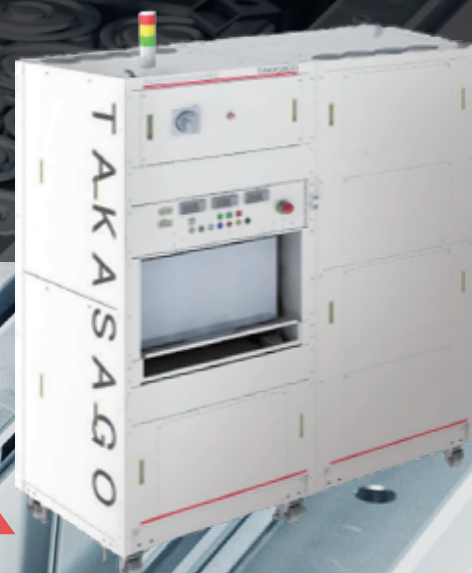


Battery Pack Test System

Product Name : RBT-2

High Power Battery Cycler Test System
for secondary batteries

*Eight configurations, covering a power range
from 100kW to 400kW*



RBT-2

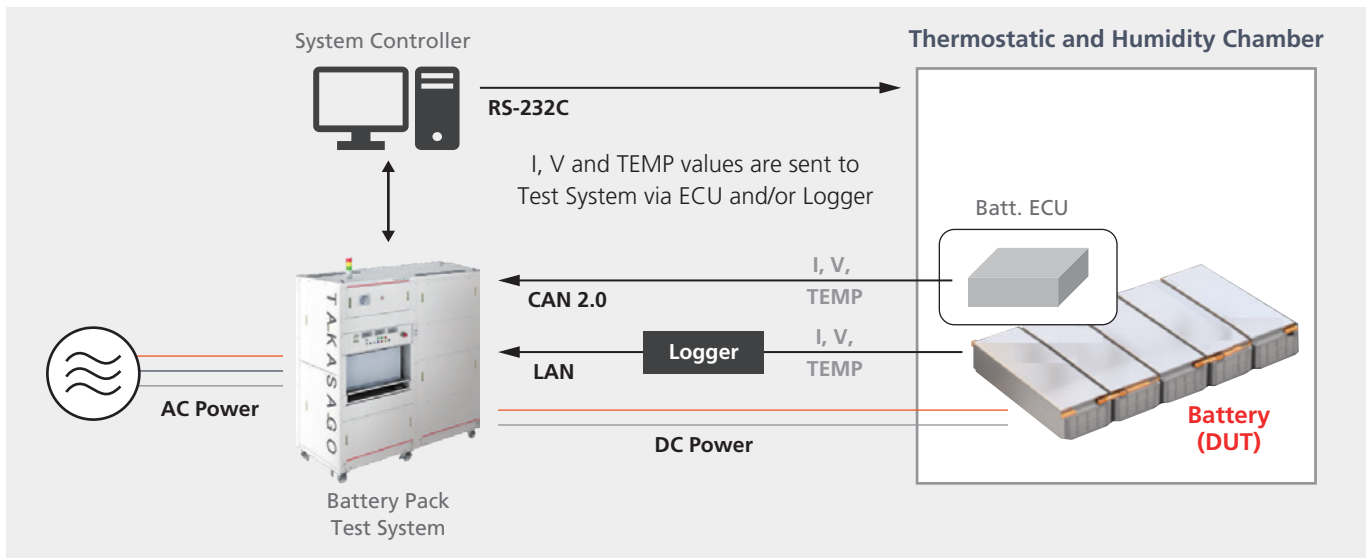
Empowering Your eMobility Testing in a Realistic Vehicle Environment

RBT-2 provide high-precision voltage and current control, fast current response, and seamless switching between charging and discharging.



Use Case

- ▼ Test System supports testing under realistic driving conditions, with its standard software and several control modes such as CC, CV and CP, as well as pulse charge/discharge.



Specifications

- ▼ Variable voltage and current anywhere within the 400kW power envelope.

650V model

Rated output voltage : Max. $\pm$ 650V

Rated output current : Max. $\pm$ 1,200A

Rated output power : Max. $\pm$ 400kW

* See datasheet for detail.

1000V model

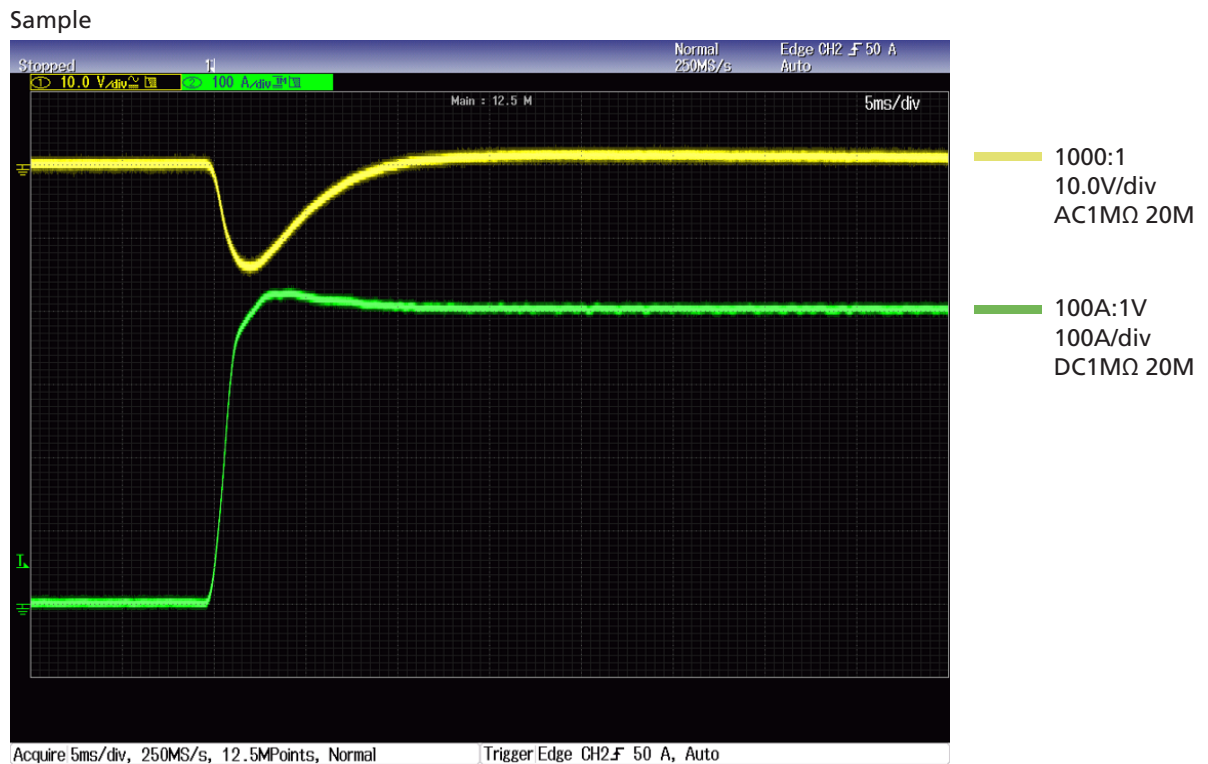
Rated output voltage : Max. $\pm$ 1,000V

Rated output current : Max. $\pm$ 600A

Rated output power : Max. $\pm$ 400kW

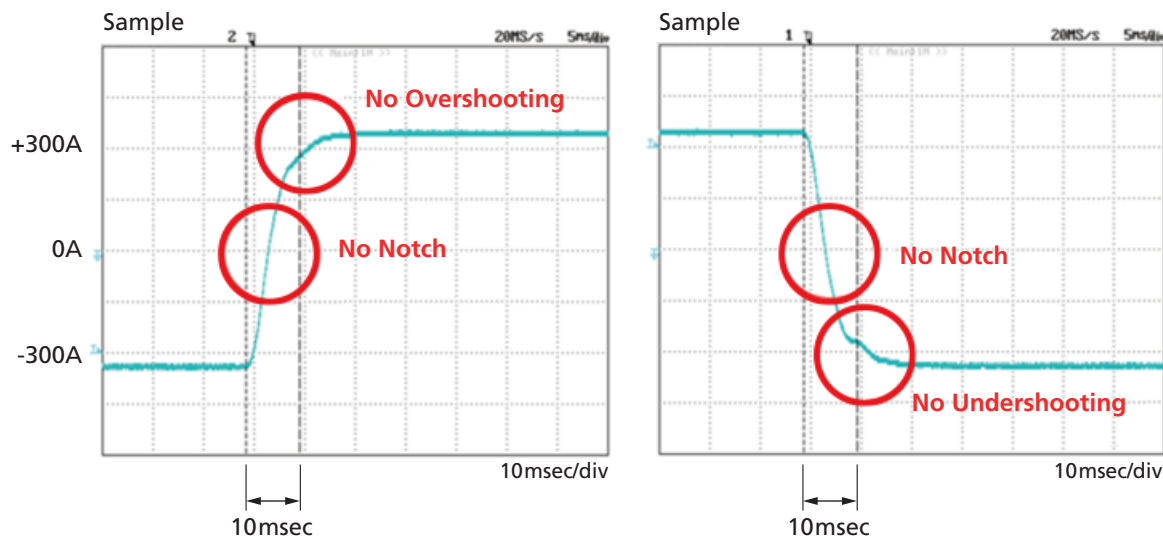
Features

- Emulates actual battery use scenarios while maintain stability. Fully independent of DUT load functions.



- Minimize stress on the DUT by eliminating current overshooting and undershooting.

- Current response ≤ 5 m sec.
- Seamless switching between sourcing and loading.
- Minimize stress on the DUT by eliminating current overshooting and undershooting.



▼ Safety features

- Overvoltage, overcurrent, and overtemperature detection
- Earth leakage breaker
- Operational status light on the top of machine
- Emergency Stop button

▼ High efficiency and low Noise

Achieves regenerative efficiency exceeding 90%.

▼ High stability

Accurate output characteristic and loss-evaluation independent of DUT load conditions.

▼ Fan noise control

Output power sensing automatically reduces fan RPM for lower output power.

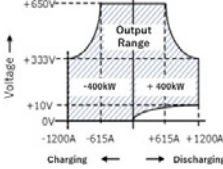
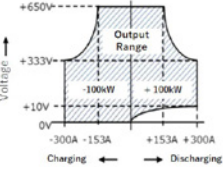
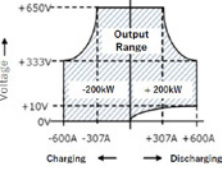
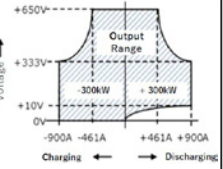
▼ CAN/CAN FD (Option)

Communicate with DUT over both CAN interfaces.

▼ Charging / Discharging Software (Option)

- Thermostatic chamber interlock
- BMU interlock
- Real-time monitoring
- CSV file import
- Simplify the development of complex test programs

Datasheet of RBT-2 Battery Pack Test System

Model			RBT-2-650-300-100K	RBT-2-650-600-200K	RBT-2-650-900-300K	RBT-2-650-1200-400K	
Output	Rated Output		650V300A100kW	650V600A200kW	650V900A300kW	650V1200A400kW	
	Output Range						
	Operation Mode		CC, CP, CC/CV, CP/CV, CV, CC Pulse, CP Pulse, and Pause				
	Constant Voltage mode (CV)	Setting	Voltage H	0.000V to 650.650V			
		Range	Voltage L	0.000V to 150.150V			
		Setting Resolution		Setting Range + 120,000(d)			
		Setting Accuracy		±0.05% of Setting Range			
	Constant Current mode (CC)	Setting	Current H	0.000A to ± 303.000A	0.000A to ± 606.000A	0.000A to ± 909.000A	0.000A to ± 1,212.000A
		Range	Current L	0.000A to ± 40.400A	0.000A to ± 80.800A	0.000A to ± 121.200A	0.000A to ± 161.600A
		Setting Resolution		Setting Range + 60,000(d)			
Setting Accuracy		±0.05% of Setting Range for Current Range H and ±0.1% of Setting Range for Current Range L					
Constant Power mode (CP)	Setting Range	Voltage H and Current H	0.000kW to ± 101.000kW	0.000kW to ± 202.000kW	0.000kW to ± 303.000kW	0.000kW to ± 404.000kW	
		Voltage H and Current L	0.000kW to ± 26.260kW	0.000kW to ± 52.520kW	0.000kW to ± 78.780kW	0.000kW to ± 105.040kW	
		Voltage L and Current H	0.000kW to ± 45.450kW	0.000kW to ± 90.900kW	0.000kW to ± 136.350kW	0.000kW to ± 181.800kW	
		Voltage L and Current L	0.000kW to ± 6.060kW	0.000kW to ± 12.120kW	0.000kW to ± 18.180kW	0.000kW to ± 24.240kW	
	Setting Resolution		Setting Range + 60,000(d)				
	Setting Accuracy		±0.1% of Setting Range for Current Range H and ±0.2% of Setting Range for Current Range L				
	Operating Power Supply	Input Voltage		AC380V to AC460V, Three-phase, 50Hz/60Hz			
Max. Current Consumption		For AC420V (For AC380V)	170A (180A)	320A (350A)	480A (530A)	630A (700A)	
		Rated Current of leakage breaker	200A (250A flame)	400A (400A flame)	600A (630A flame)	800A (800A flame)	
Operational Environment	Temperature		41°F to 95°F				
	Humidity		20% to 85% without any freezing and condensation				
Other Functions	Color		Munsell N9.5 Semi-gloss				
	Dimension (inch: W x H x D without protruding object)		59" x 77" x 33"	89" x 77" x 33"	118" x 77" x 33"	148" x 77" x 33"	
	Weight		1,874 lbs	2,977 lbs	4,079 lbs	4,960 lbs	

Model			RBT-2-1000-150-100K	RBT-2-1000-300-200K	RBT-2-1000-450-300K	RBT-2-1000-600-400K	
Output	Rated Output		1000V150A100kW	1000V300A200kW	1000V450A300kW	1000V600A400kW	
	Output Range						
	Operation Mode		CC, CP, CC/CV, CP/CV, CV, CC Pulse, CP Pulse, and Pause				
	Constant Voltage mode (CV)	Setting	Voltage H	0.000V to 1,001.00V			
		Range	Voltage M	0.000V to 650.650V			
			Voltage L	0.000V to 150.150V			
		Setting Resolution		Setting Range + 120,000(d)			
	Setting Accuracy		±0.05% of Setting Range				
	Constant Current mode (CC)	Setting	Current H	0.000A to ± 151.500A	0.000A to ± 303.000A	0.000A to ± 454.500A	0.000A to ± 606.000A
		Range	Current L	0.000A to ± 40.400A	0.000A to ± 80.800A	0.000A to ± 121.200A	0.000A to ± 161.600A
			Setting Resolution		Setting Range + 60,000(d)		
		Setting Accuracy		±0.05% of Setting Range for Current Range H and ±0.1% of Setting Range for Current Range L			
	Constant Power mode (CP)	Setting Range	Voltage H and Current H	0.000kW to ± 101.000kW	0.000kW to ± 202.000kW	0.000kW to ± 303.000kW	0.000kW to ± 404.000kW
			Voltage H and Current L	0.000kW to ± 40.400kW	0.000kW to ± 80.800kW	0.000kW to ± 121.200kW	0.000kW to ± 161.600kW
			Voltage M and Current H	0.000kW to ± 98.475kW	0.000kW to ± 196.950kW	0.000kW to ± 295.425kW	0.000kW to ± 393.900kW
Voltage M and Current L			0.000kW to ± 26.260kW	0.000kW to ± 52.520kW	0.000kW to ± 78.780kW	0.000kW to ± 105.040kW	
Voltage L and Current H			0.000kW to ± 22.725kW	0.000kW to ± 45.450kW	0.000kW to ± 68.175kW	0.000kW to ± 90.900kW	
Voltage L and Current L			0.000kW to ± 6.060kW	0.000kW to ± 12.120kW	0.000kW to ± 18.180kW	0.000kW to ± 24.240kW	
Setting Resolution		Setting Range + 60,000(d)					
Setting Accuracy		±0.1% of Setting Range for Current Range H and ±0.2% of Setting Range for Current Range L					
Operating Power Supply		Input Voltage		AC380V to AC460V, Three-phase, 50Hz/60Hz			
	Max. Current Consumption	For AC420V (For AC380V)	170A (180A)	320A (350A)	480A (530A)	630A (700A)	
		Rated Current of leakage breaker	200A (250A flame)	400A (400A flame)	600A (630A flame)	800A (800A flame)	
Operational Environment	Temperature		41°F to 95°F				
	Humidity		20% to 85 % without any freezing and condensation				
Other Functions	Color		Munsell N9.5 Semi-gloss				
	Dimension (inch: W x H x D without protruding object)		59" x 77" x 33"	89" x 77" x 33"	118" x 77" x 33"	148" x 77" x 33"	
	Weight		1,874 lbs	2,977 lbs	4,079 lbs	4,960 lbs	

Note

TAKASAGO, LTD. reserves the right to modify the features and specifications in this brochure at any time without prior notice or obligation. For the most up-to-date information, please visit our website at www.takasago-ss.co.jp/en/.

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