

Regenerative Battery Pack Cycle Test System



MODEL NO. BAT-NEH-5001000-V004

Learn More About Nebula

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DC Characteristics	
_	7.5 10.00\/
Voltage	35~1000V
Current	0.025A~600A/1200A/2400A
Power	500kW/per channel
Channels	2CH/4CH
Current Rise/Fall Time (10%-90%)	≤4ms
Switching Time (-90%-90%)	≤9ms
Regenerative Efficiency	95.5% (SiC based)
Driving Profile Simulation	20ms
Offline Operation	6 hrs
Galvanic Isolation	Yes, per channel
DC Contactors	Optional
Measurement Accuracy and Resolut	tion
Current Ranges	5
Current Range Accuracy Voltage Accuracy	0~150A: 0.03% F.S.
	150~ 300A:±0.03% F.S.
	300~450A:±0.03% F.S.
	450~600A:±0.03% F.S.
	600~1200A:±0.03% F.S.
	10~40°C: ±0.01% F.S.
	0~45°C: ±0.02% F.S.
Current Resolution	0.1mA
Voltage Resolution	0.1mV
AC Characteristic	
AC Input Voltage	323VAC~437VAC
AC Input Frequency	50~60Hz
Module Characteristic	
Dimensions	W*240cm x L*125cm x H*210cn
Weight	3400kg
Cooling	Air
Operating Temperature	0°C~45°C
Installation Altitude	0~3000m
Relative Humidity	0%~90%
Protection Class	IP32
Communication Interface	CAN\CANFD\RS485

Control and Automation SW	NEPTS: preloaded on industrial PC;
	life-time upgrade eligibility
HMI Option	Touch Screen, External Control PC or
	mobile phone
User Management	Multi-user access right
External Device Management	External measurement devices can be
	added (e.g. climate chamber, chiller,
	auxiliary V/T acquisition device)
Interface Configuration	Support configuration of
	Ethernet/CAN/RS485/USB3.0
Operation Modes	Constant Current, Constant Voltage,
	Constant Power, Constant Ramp,
	and Pulse Resistance
Test Sequence Editing	User Definable Variable
	Formula Device
	(cyclic calculation)
	Condition-based Step
	(e.g. if/else)
	Upper Limit Monitoring based on
	Max. Current, Voltage, Power,
	Temperature
Data Plotting and Visualization	Integrated Data Explorer/Viewer
	in form of both numeric table
	and graphical illustration
	(customizable)
Data Export Format	TXT, EXCEL, CSV, MDF3
Data Storage Option	USB Stick

Control and Automation Software



Control and monitor third-party hardware such as temperature chambers, pumps, flow meters, heaters, valves, etc.



View, plot, and analyze battery test data in real-time, providing immediate information and insights



An easy way to add test steps, set control type and value, set termination conditions, and customize simulation profiles



Communicate with an internal battery management system (BMS) via CAN bus or SM bus protocol



Local or Network Drive

Parallel any number of channels to increase current handling, while automatically compiling data



Review test data and export data into CSV or Excel format through Nebula **NEPTS** software

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