

Regenerative Portable Battery Module Test System



MODEL NO.
BAT-NEEFLCT- 300100PT-E002

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Technical Data


Channel	1
Voltage	0~300V
Current	±120A
Power	20 kW
Current Rise/Fall Time (10%-90%)	≤10ms
Parallel Connection	Not available
Regenerative Efficiency	92.8%
Driving Profile Simulation	50ms
BMS Add-on	Dedicated 12V power supply for BMS
	CAN DBC file import
	Communication via CAN or RS485
Input Power	3x208 V ±10% 60 Hz ±5% US
	3x380 V ±10% 50 Hz ±5% China
	3x380 V ±10% 60 Hz ±5% Korea
	3x400 V ±10% 50 Hz ±5% EU
	3x440 V ±10% 60 Hz ±5% Japan
	3x480 V ±10% 60 Hz ±5% US
Voltage Accuracy	15~35°C: ±0.02% F.S.
	0~45°C: ±0.05% F.S.
Current Accuracy	15~35°C: ±0.02% F.S.
	0~45°C: ±0.05% F.S.
Sampling Interval	10ms
Auxiliary Voltage Acquisition	32CH*N (Optional) 0~10V
Dimensions	W*340mm x L*600mm x H*696mm
Weight	60 kg
Internal BMS Output	12V3A
Operating Temperature	0°C-45°C
Cooling	Air
Relative Humidity	0%-85%
Protection Class	IP21
Communication interface	CANFD/RS485/Ethernet/BMS

Control and Automation Software


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
	Local or Network Drive




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




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




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



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



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



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

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