


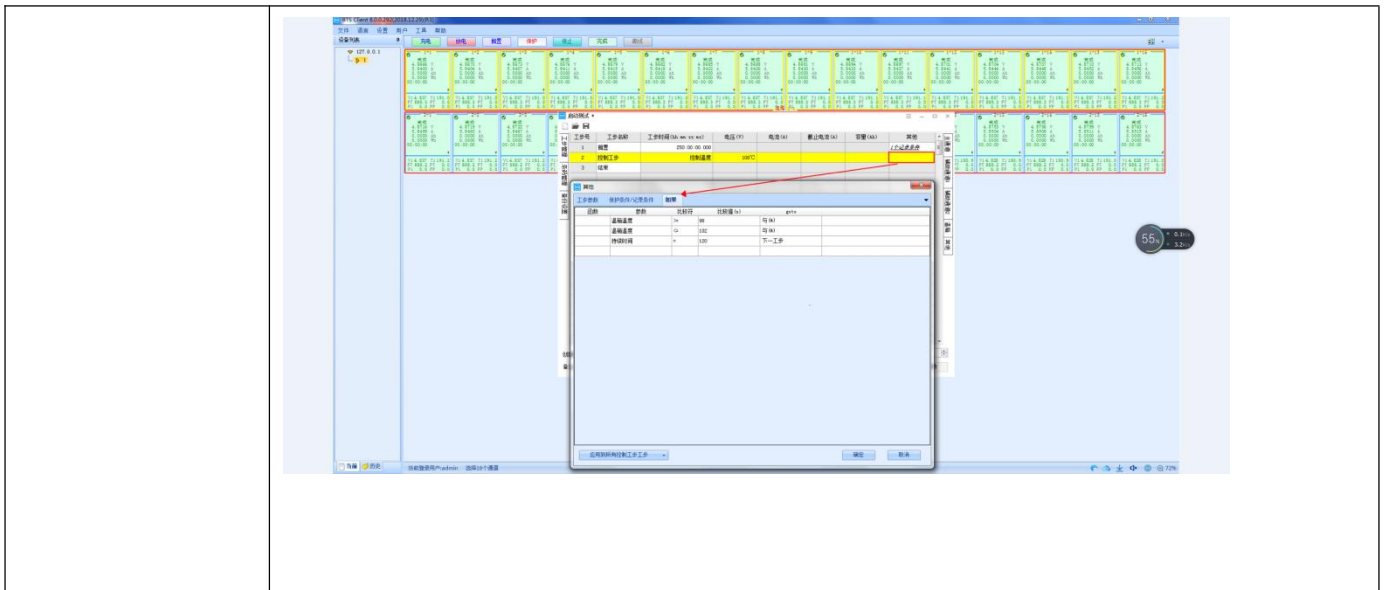


All-in-One 3C Testing System

1. Material code	MHW-500-5V6A80CH-380V														
Model naming method	Model		MHW	-	500	-	4T	S	-	5V10mA	-	220V	-	B	
	Characteristic		①		②		③	④		⑤		⑥		⑦	
	Symbol meaning	①	Constant temperature test box series												
		②	Nominal volume: 500L (other digital analogy)												
		③	4T: 4 temperature zones (not indicated by the single temperature zone)												
		④	Refrigeration mode: S represents the semiconductor refrigeration (temperature range: 15°C ~60°C) Compressor refrigeration does not indicate (temperature range: 0°C ~60°C)												
		⑤	5V10mA 160CH: Power supply equipment specifications and number of channels, but not omitted by default												
		⑥	220V: Equipment voltage 220V (default 220V omitted not indicated, other voltages by analogy)												
⑦		B: Product iteration update version number, then A, B, C....., Default A does not indicate													
2. Product application	<ul style="list-style-type: none"> ● Thermostatic test of the polymer cells ● Electronic, electrical, instrument, materials, semiconductor and other production enterprises to non-flammable, non-explosive items for constant temperature test ● Environmental protection, agricultural and livestock, aquatic scientific research institutions and production of water analysis, bacteria, mold, microbial culture, preservation, plant cultivation, breeding test of constant temperature test 														
3. Limit the sample	<p>This test equipment is prohibited by:</p> <ul style="list-style-type: none"> ● Test or storage of samples of inflammable, explosive and volatile substances ● Test or storage of test samples of corrosive substances ● Test or storage of samples of strong electromagnetic emission sources ● Test and storage of test samples of radioactive substances ● Test and storage of test samples of highly toxic substances ● Testing or storage of tests or specimens that may produce such substances or objects 														
4. Volume, size and weight															
4.1 Nominal content product	500L														

4.2 Inner box size	W700mm × D700mm × H1000mm	
4.3 Overall dimensions	W1100mm × D1700mm × H1950mm (without a bulge)	
4.4 Net weight of the equipment	About 420kg	
5. Performance		
5.1 Test the environmental conditions	Ambient temperature is +25°C, relative humidity is 85%, with no sample in the test box (no load)	
5.2 Temperature range	10~85°C	
5.3 Temperature fluctuation degree	≤1°C (equivalent to ± 0.5°C, with no load and stable temperature)	
5.4 Temperature deviation	± 2.0°C (when no load and temperature is stable)	
5.5 Heat-up time	25°C~85°C ≤40 min (no load, average nonlinearity)	
5.6 Cooling down time	25°C~10°C ≤40 min (no load, average nonlinearity)	
5.7 Thermal load	500W (due to heating when the cell is charged)	
6. Structural characteristics		
6.1 Thermal insulation and envelope structure	Outer wall material: high quality cold-rolled steel plate, surface spray plastic and paint treatment Inner wall material: stainless steel plate SUS304 Box insulation material: polyurethane foam (insulation thickness 60mm)	
6.2 Air conditioning channel	Axial flow fan, heater, and evaporator	
6.3 Standard configuration of the test box	<p>Lead hole (with soft glue plug): ϕ 50mm / 10 (5 on the left and right sides of the back of the box, 2 trays for each layer)</p> <p>Caster: 4 pcs (with brakes)</p> <p>Observation window: double-layer insulating electric heating film anti-fog observation window (located on the door)</p> <p>The visual range is about 330,450 mm (wide and high), with electric thermal fog removal in the glass, which can provide the best observation line of sight</p> <p>Cell tray: electric insulation, cell tray 5 layers, load-bearing (all cloth): 15kg / layer</p> <p>Lighting: LED lighting lamp</p>	 

6.4 The Control Panel	Touch-type control button, emergency stop button, etc
6.5 Heater	Nickel-chromium alloy electric heating wire type heater Heater control mode: no contact and other periodic pulse widening, SSR (solid state relay)
7. Refrigeration system	
7.1 Refrigeration compressor	Fully enclosed piston compressor 
7.2 Cooling mode	Air-cooled
7.3 The throttle device	Capillary
7.4, the refrigerant	R404A
7.5 Welding process	Nitrogen-charge protective welding
8. Electrical control system	
8.1 Controller	Touch controller (independently developed by Xinwei) + push-button controller
8.2 Setting mode	Touch key type
8.3 Control mode	Forced circulating ventilation and balancing temperature regulation method. The control system controls the output of the heater through the PID automatic operation output result according to the set temperature value, so as to achieve a dynamic balance
8.4 Communication mode	The Ethernet standard interface
8.5 Temperature control module	Independent research and development (high and low temperature shock, vibration and EMC)
9. Cell testing equipment and test interconnection	
9.1 Testing equipment	5V6A80CH
9.2 The median machine	2
9.3 The Network Switch	1



10. Safety protection device

Test box	Leakage protection, short circuit protection and circulation fan operation
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11. Other configurations

11.1 Power supply cable	1 five-core (three-phase four-wire + protective ground wire) cable (specific specifications are selected according to the contract requirements)
11.2 Main power supply leakage circuit breaker	Three-phase, four-wire + protective ground wire

12. Transportation test box is integral, overall transportation

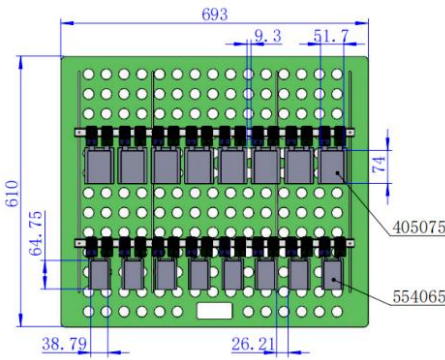
Size	Maximum shipping size (excluding packaging): "See 4.3 Outline dimensions"
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13. The following conditions are guaranteed by the user (the user is responsible for the installation of the power supply line of the equipment)

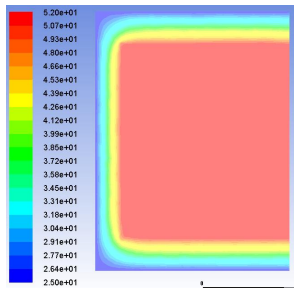
13.1 Installation site	<ul style="list-style-type: none"> ● Ground level and flatness of 5mm / 2m ● well-ventilated ● No strong vibration around the equipment ● There is no strong electromagnetic field influence around the equipment ● There is no flammable, explosive, corrosive substances and dust around the equipment ● There is appropriate space for use and maintenance around the equipment. There should be room for the opening door of the equipment, and there should be no other objects in front of the equipment door
13.2 The Environmental conditions	Temperature: 5°C ~35°C; relative humidity: 85%; air pressure: 86 kPa ~ 106 kPa

<p>13.3 Power supply conditions</p> <p>Source</p> <p>Power capacity maximum current</p>	<ul style="list-style-type: none"> ● AC (380 ± 38) V (50 ± 0.5) Hz three-phase five-wire system ● The protective ground resistance is less than 4 Ω ● The user is required to configure an air or power switch for the equipment at the installation site, and the switch must be independent for the equipment ● 4kW (temperature box) + 4kW (power supply) ● 8A+8A
<p>13.4 Other</p>	<p>Opening the door of the test box will cause the temperature fluctuation in the box; if opening the door several times or opening the door for a long time or the test sample emits wet steam, the heat exchanger of the refrigeration system may cause frost or freeze and fail to work normally</p>

14. Cell specifications and placement method

<p>14.1 Cell specifications</p>	<p>Soft package cell 5V6A80CH, cell size as shown below:</p>
<p>14.2 Cell placement mode</p>	<p>Five layers were placed, and each layer was 16 CH</p>
<p>14.3 Cell tray form and cell fixing mode (cell tray can be customized as needed)</p> <p>Cell tray using electric, insulated electric wood quality</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Pour:</p> <ol style="list-style-type: none"> 1. Each layer of cell tray is equipped with 2 C-type rails, and 10 trays 2. The channel line is treated by partial peeling in the box </div> </div>

15. Simulation diagram during stable temperature operation in the test box (schematic diagram only)

<p>No-load run</p>	
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