

## 3C All-in-One Testing System 1. Material code WHW-500L-5V6A80CH-380V WHW S Model 500 4T 5V10mA 220V В 160CH L (1) 2 (3) **4**) (5) **6**) (7) Characteristic (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) Refrigeration mode: S represents the semiconductor refrigeration (temperature range: $15^{\circ}$ C ~60°C) 4 Model naming method Symbol Compressor refrigeration does not indicate (temperature range: 0°C ~60°C) meaning (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 Thermostatic test of the polymer cells Electronic, electrical, instrument, materials, semiconductor and other production 2. Product enterprises to non-flammable, non-explosive items for constant temperature test application 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 This test equipment is prohibited by: Test or storage of samples of inflammable, explosive and volatile substances Test or storage of test samples of corrosive substances 3. Limit the sample 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 500L product

www.neware-usa.com 1/6



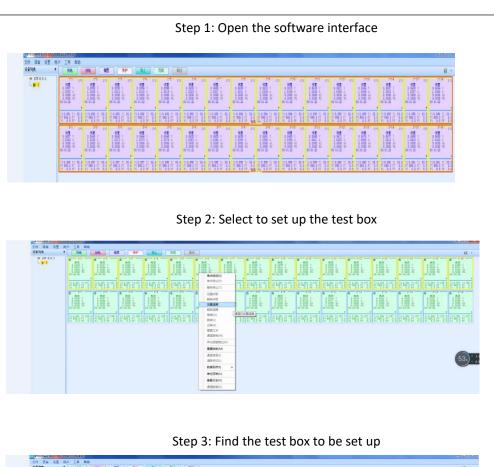
4.2 Inner box size	W700mm × D700mm × H1000mm	
4.3 Overall	W1100mm × D1700mm × H1950mm (without a bulge)	
dimensions		
4.4 Net weight of	Al - 1 4201 -	
the equipment	About 420kg	
5. Performance		
5.1 Test the		
environmental	Ambient temperature is +25 $^{\circ}\mathrm{C}$ , relative humidity is 85%, with no sample in the test box (no	
conditions	load)	
5.2 Temperature		
range	10~85℃	
5.3 Temperature		
fluctuation degree	$≤$ 1 $^{\circ}$ C (equivalent to ± 0.5 $^{\circ}$ C, with no load and stable temperature)	
5.4 Temperature	200/ / heaved head and heaved head and heaved	
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		
	Outer wall material: high quality cold-rolled steel plate, surface spray plastic and paint	
6.1 Thermal	treatment	
insulation and	Inner wall material: stainless steel plate SUS304	
envelope structure	Box insulation material: polyurethane foam (insulation thickness 60mm)	
6.2 Air conditioning		
channel	Axial flow fan, heater, and evaporator	
	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)	
	Caster: 4 pcs (with brakes)	
6.3 Standard	Observation window: double-layer insulating electric heating film anti-fog	
configuration of the	observation window (located on the door)	
test box	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	
	Cell tray: electric insulation, cell tray 5 layers, load-bearing (all cloth): 15kg / layer	
	Lighting: LED lighting lamp	

www.neware-usa.com 2 / 6



6.4 The Control	Touch-type control button, emergency stop button, etc		
Panel	,, , , , , , , , , , , , , , , , , , , ,		
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 syste	m		
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 equipm	9. Cell testing equipment and test interconnection		
9.1 Testing equipment	5V6A80CH		
9.2 The median machine	2		
9.3 The Network Switch	1		

www.neware-usa.com 3 / 6



9.4 Upper computer programming control interface (see equipment random data for details)



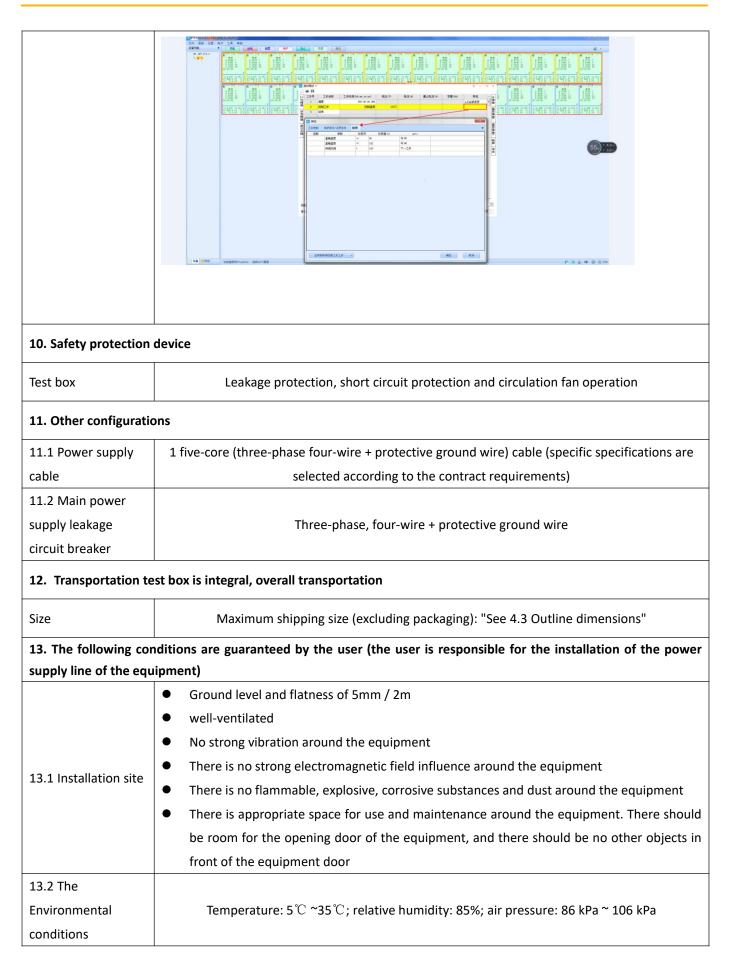
Step 4: Set up the test box to control the temperature



Step 5: Set the working step control conditions

www.neware-usa.com 4/6





www.neware-usa.com 5 / 6



13.3 Power supply conditions	<ul> <li>AC (380 ± 38) V (50 ± 0.5) Hz three-phase five-wire system</li> <li>The protective ground ground resistance is less than 4 Ω</li> </ul>
Source Power capacity	<ul> <li>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</li> <li>4kW (temperature box) + 4kW (power supply)</li> <li>8A+8A</li> </ul>
maximum current	OATOA
13.4 Other	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
14. Cell specifications	and placement method
14.1 Cell specifications	Soft package cell 5V6A80CH, cell size as shown below:
14.2 Cell placement mode	Five layers were placed, and each layer was 16 CH
14.3 Cell tray form and cell fixing mode (cell tray can be customized as needed)  Cell tray using electric, insulated electric wood quality	Pour:  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
15. Simulation diagra	m during stable temperature operation in the test box (schematic diagram only)
No-load run	5.20±401 5.37±401 4.38±401 4.58±401 4.58±401 4.38±401 4.38±401 4.38±401 3.39±401 3.39±401 3.39±401 3.39±401 3.39±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 3.38±401 2.37±401 3.38±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401 2.91±401

www.neware-usa.com 6/6