


# MSD-970-1 Battery Test System

NSN: 6130-01-508-3397

## Specification

	<p><b>Battery service profiles loaded;</b> (Profiles can be added, subtracted or modified)</p> <p>D8565/4-1, D8565/14-1, D8565/6-1, D8565/1-(1,2), 39411-003, MS17334-2, 27177-001, D8565/13-1, 27826-002, LTN-72, Generic, G-244, MS27546-1, MS75047-(1,2), M11188/2A, M83769/7-1, 2HN, 4HN, 6TL, 6TN, Optima, 052-830095-1 (HEELS), CA54-1, BA02-05, BB-716/A, CA-1700, D8565/10-1, D8565/11-1, RG-385, D8565/12-1, D8565/15-1, D8565/16-1, D8565/3-2, D8565/3-3, D8565/5-1, D8565/7-1, D8565/7-2, EPI-18164-6, M81757/10-1, M81757/11-(3,4), M81757/12-(1,2), M81757/13-1, M81757/14-1, M81757/15-(1,2,3), M81757/16-(1,2), M81757/17-1, M81757/7-(2,3), M81757/8-(4,5), M81757/9-(2,3), M83769/4-1, SP-1700, STCA-400, STSP-403, 17160, 18462, 29402-001, 30030-001, 4076-11, 43B006TB01, 43B030RB03, 43B034LB03, 43B034RB03, GPU-2/A, D8565/11-2, D8656/8-1, D8565/5-2, D8565/9-1, M83769/2-1, M83769/3-1, M83769/6-1, G-6385, 30192-03C</p>
<b>Mechanical</b>	
Size	12 5/8"H x 21"W x 20"D(22" including power cord)
Weight	103 pounds
<b>Electrical – Input</b>	
Input Voltage	240 VAC / 120VAC Configurable
Frequency	50 / 60 Hz
Current Requirements	12 Amps / 15 Amps Maximum
<b>Electrical – Output</b>	
Constant Current Charge	0.02 to 70 Amps <sup>1</sup>
Constant Current Discharge	0.02 to 70 Amps <sup>2</sup>
<b>Electrical – Displays</b>	
Current	-80 to +80 Amps (12 bit resolution)
Voltage	-50 to +50 Vdc (12 bit resolution)
Time	596 Hours, 31 Minutes, 26 Seconds Maximum
Amp Hours	0 AH to 99999.99 AH Maximum
Profile Step	1 to 10
Temperature	32.0°F to 140.0°F (12 bit resolution)
<b>Electrical – Tolerances</b>	
Current	Less than 4.5 Amps (± 3 mA) Greater than or equal to 4.5 Amps (± 1% full scale)
Voltage	± 100 mV
Temperature	± 5° Fahrenheit
Time	± 10 Seconds
<b>Environmental – Non-Operating</b>	
Altitude	0 to 40,000 feet
Ambient Temperature	-40°F to 159°F
<b>Environmental – Operating</b>	
Altitude	0 to 8,000 feet
Ambient Temperature	32°F to 104°F
<b>Charger Function</b>	
Constant Current Mode	Programmable for Any Value Between 0 and 70 Amps
Battery Voltages – Constant Current Charge	1.25, 2, 6, 12, 24, 28, 36
Constant Potential Mode	Programmable for Any Value Between 0 and 40 Volts
Battery Voltages – Constant Potential Charge	1.25, 2, 6, 12, 24, 28, 36
Number of Profile Steps	1 to 10
Charge to Voltage, Current, Time, Negative Slope Sensing, Temperature Compensation, Delta Thermal Protection	
<b>Other Functions</b>	
Capacity Test, Voltage / Current Monitoring, Serial Data Collection Compatible (RS-232), Data Collection Software Included, Pause / Resume Function, Viewable Profile History Summary, Audio / Visual Indicators, Can store up to 80 different battery profiles	
<b>Available Accessories</b>	
Battery cables specific to the batteries listed	

- Power supplies are rated per the following criteria. Any operations outside the specified limits are **not** guaranteed.
  - Maximum rated current per power supply: 31.25 amps (2 power supplies = 62.50 amps)
  - Over current protection per power supply: 33.60 to 36.80 amps (2 power supplies = 67.20 to 73.6 amps)
  - Over current protection is square type. If over current condition continues for beyond 30 seconds, the output is shut OFF. Recovery is by removing power and reapplying power (ON / OFF front panel switch) after 40 seconds.
- 1500 Watts maximum discharge power.