


MSD-710-1 Battery Test System

NSN: TBD

Specification	
	Battery service profiles loaded; (Profiles can be added, subtracted or modified)
	36 volt Charge only, CDC, CEDC 42 volt Charge only, CDC, CEDC 48 volt Charge only, CDC, CEDC 60 volt Charge only, CDC, CEDC 72 volt Charge only, CDC, CEDC
Mechanical	
Size	9"H x 23"W x 16"D (with lid closed)
Weight	45 pounds
Electrical – Input	
Input Voltage	90 to 264 Volts AC
Frequency	50 / 60 Hz ¹
Current Requirements	13.5 Amps Maximum
Electrical – Output	
Constant Current Charge	0.04 to 10 Amps
Constant Current Discharge	0.04 to 20 Amps (1500 Watts maximum discharge power)
Electrical – Displays	
Current	-80 to +80 Amps (12 bit resolution)
Voltage	-90 to +90 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)
Electrical – Tolerances	
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
Environmental – Non-Operating	
Altitude	0 to 40,000 feet
Ambient Temperature	-40°F to 159°F
Environmental – Operating	
Altitude	0 to 8,000 feet
Ambient Temperature	32°F to 104°F
Charger Function	
Constant Current Mode	Programmable for Any Value Between 0 and 10 Amps
Battery Voltages – Constant Current Charge	1.25, 2, 6, 12, 24, 28, 36, 42, 48, 60, 72
Constant Potential Mode	Programmable for Any Value Between 0 and 72 Volts
Battery Voltages – Constant Potential Charge	1.25, 2, 6, 12, 24, 28, 36, 42, 48, 60, 72
Number of Profile Steps	1 to 10
Charge to Voltage, Current, Time, Negative Slope Sensing, Temperature Compensation, Delta Thermal Protection	
Other Functions	
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	
Available Accessories	
Battery cables specific to the batteries listed ¹ Can be configured for up to 880 Hz	