



AUTOMATED POWER SUPPLY TESTER

The Automated Power Supply Tester is designed to test a wide range of Power Supply boards used in the Tensor Style MWD tools. It can test both a Dual Output Supply and a Triple Output Supply. All test cases are set automatically using the supplied windows software. A user is only required to plug in the device under test and initiate the software. A full functional test can be completed automatically in under 20 minutes. The software also supports continuous testing up to 2.5 hours. This is useful for heat testing and further fault finding operations.

Features and Benefits

- Complete functional test coverage
- Requires no other equipment, other than a computer to run the software
- Completely automated with intuitive user interface
- All test data is logged and stored for future reference
- Dependable and Repeatable results
- All power supply outputs are monitored while tool simulation is applied
 - Measurements with No Load
 - With a Small Load – Nominal Operating Conditions
 - With a Heavy Load – Extreme Operating Conditions
 - With a Heavy Battery Load – Fault Condition
- Power Switching and Battery Switching is Tested
- Multiple test cycles performed to verify accuracy.

Results Viewer

Results of Test 1

Test Started on 9/16/2015 8:44:29 AM		GENERIC DRILLING COMPANY		NO ERRORS					
Serial Number: 1		2000							
FOCUS TOOLS		100							
Cycle1	Cycle2	Cycle3	Cycle4	Cycle5	Cycle6	Cycle7	Cycle8	Cycle9	Cycle10
BAT 1		BAT 2		Power Switch					
No Load	Small Load	Heavy Load	BAT Load	No Load	Small Load	Heavy Load	BAT Load	Power Off	Power On
12V Result: 12.52V	12.54V	12.53V	12.55V	12.55V	12.54V	12.54V	12.55V	0.31V	12.53V
-12V Result: -12.56V	-12.56V	-12.56V	-12.55V	-12.54V	-12.55V	-12.55V	-12.55V	-0.37V	-12.55V
5V Result: 5.04V	5.02V	5.04V	5.04V	5.04V	5.02V	5.03V	5.04V	5.04V	5.04V
BAT1 Current: 0.30mA	83.77mA	159.30mA	771.49mA	0.46mA	0.49mA	0.46mA	0.23mA	0.55mA	0.53mA
BAT2 Current: 3.86mA	3.78mA	3.77mA	3.35mA	4.72mA	30.62mA	56.26mA	258.27mA	3.82mA	4.22mA
12V Noise: PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
-12V Noise: PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
5V Noise: PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
BAT BUS: 23.47V	23.36V	23.32V	22.93V	23.45V	23.34V	23.29V	22.90V	23.48V	23.45V

Graphic User Interface

