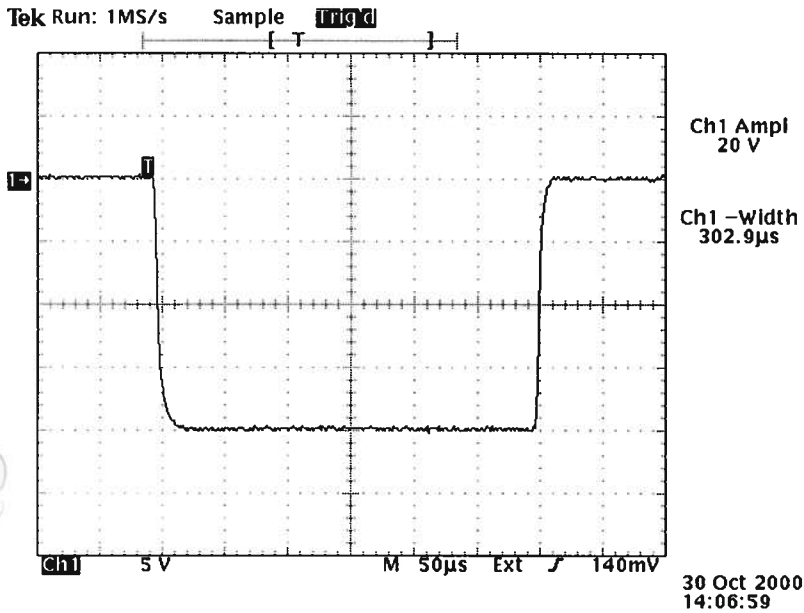


PULSE GENERATOR
PERFORMANCE CHECK

Model: AV-108A-3-B-N

S.N.: 9537

Date: October 30, 2000



- a) Output Signal Amplitude: 0 to -200A ✓
- b) Pulse Width: 10 us - 1 ms ✓
- c) Rise Time: ≤ 5 us ✓
- d) Fall Time: ≤ 5 us ✓
- e) PRF: 1 - 1000 Hz ✓
- f) Jitter, Stability: OK ✓
- g) Prime Power: 120/240V AC, 50-60 Hz, ✓

Output waveform (5V/div, 50us/div) for:
PRF=10 Hz, PW=300us, AMPL=-200A, $R_L=0.1\Omega$



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"-B" Functional Test & Calibration Certificate

Date of test:	October 30, 2000				Tester: MJC	
Programmed model name:	AV-108A-3-B-N					
Programmed serial number:	9537					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output ¹ :	0.998 Hz	9.98 Hz	99.7 Hz	999 Hz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			yes	
Pulse width checked at:	10 us	100 us	1 ms	1 Hz, 200 A,		
Actual measured output ² :	9.8 us	100.0 us	1.01 ms	into 0.1 Ohms		
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	1%					
Delay nulled:	N/A					
Delay checked at:	100 us	200 us	500 us	1 ms	1 Hz, 200 A,	
Actual measured output ¹ :	104 us	206 us	508 us	1.006 ms	into 0.1 Ohms	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-20A	-50A	-100A	-180A	10 Hz, 100 us	
Actual measured output ² :	-21A	-50.4A	-100A	-182A	into 0.1 Ohms	
Amplitude polarity:	-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	1V / 100A		Monitor offset nulled:		yes	
LCD Monitor calibrated:	yes		Monitor offset nulled:		N/A	
Mon. Single Pulse/Min PW OK:	yes		SHA Cap:		0	
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A		Amplitude-dependent offset nulled:			
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	3k 30k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.55A	Max. Load:	1.2A		
AC fuse:	1.5A					
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.