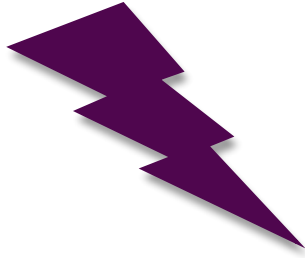


# ERIS



## EMC & RF Instrumentation Solutions

### Honesty In Instrumentation

#### Prima EMC Model ISO7637-TP2b,4

#### ISO 7637-2 Pulse 2b, 4

The Model ISO7637-TP2b,4 Automotive Transient Generator is designed for testing to the ISO 7637-2 Specification. The instrument is designed for ease of use via the large 7 inch easy to read and navigate color touch screen. Built in test standards allow for immediate testing while user defined routines are just a tap away via the touch screen. The ISO7637-TP2b,4 is built for ruggedness and longevity with quality and dependability being first and foremost.

The ISO7637-TP2b,4 simulates Pulse 2b transients from DC motors acting as generators after the ignition is switched off. In addition Pulse 4 simulates supply voltage reduction caused by energizing the starter motor circuits of internal combustion engines. Spikes associated with starting are not included in the pulse 4 ISO 7637 specification.

The Model ISO7637-TP2b,4 specifications exceed many of the ISO 7637 requirements allowing for greater testing flexibility.



## Specifications

Pulse 2b		12 volt System	24 volt System
Test Voltage	UA	13.5 volts +/- 0.5 volts	27 volts +/- 1 volt
Pulse Voltage	Us	10 volts	20 volts
Source Resistance	Ri	0 $\Omega$ to 0.05 $\Omega$	
Pulse Rise Time	Tr	1 ms +/- 0.5 ms	
Pulse Fall Time	T1	1 ms +/- 0.5 ms	
Voltage Zero Time	T2	1 ms +/- 0.5 ms	
Pulse Duration	Td	0.1 s to 3 s	
Pulse Period	T	0.3 s to 9.9 s	
Repetitions	N	1 to 99 times	

Pulse 4		12 Volt System	24 Volt System
Stable Voltage	UB	13.5 volts +/- 0.5 volts	27 volts +/- 1 volt
First Voltage Drop	Us	-5 volts to -8 volts	-10 volts to -20 volts
First Voltage Drop Duration	t7	10 ms to 50 ms	40 ms to 120 ms
First Voltage Drop Fall Time	t10	5 ms	10 ms
Second Voltage Drop	Ua	-2 volts to -6.3 volts with $ Ua  \leq  Us $	-4 volts to -13 volts with $ Ua  \leq  Us $
Second Voltage Drop Duration	t9	0.3 s to 25 s	
Drop Rise Time	t8	$\leq$ 50 ms	
Stable Voltage Recovery Time	t11	4 ms to 150 ms	
Source Resistance	Ri	0 $\Omega$ to 0.02 $\Omega$	
Max EUT Current		54 amps	
Repetitions	N	1 to 99 times	

## General Equipment Specifications

Primary Power	110 vac to 240 vac
Environment	Temperature: 15° C to 35° C Humidity: 45% to 75% Atmospheric Pressure: 86 to 106 kPa
Dimensions	450 mm x 430 mm x 310 mm
Remote Interface	USB GPIB

