



Model 2854-1 Transient Generator for MIL-STD-461F CS106 conducted transient susceptibility test



DESCRIPTION



APPLICATION

The **Solar Model 2854-1 Transient Generator** is designed for screen room use in making conducted transient susceptibility tests as specified in MIL-STD-461F, Test Method CS106.

DESCRIPTION

The **Model 2854-1** provides $5 \mu\text{S} \pm 22\%$ pulse with a $1.5 \mu\text{S} \pm 0.5 \mu\text{S}$ rise time across a 5.0Ω non-inductive resistor. Voltage is adjustable to greater than 400 V. The undershoot is limited to less than 120 V peak (maximum) and less than $20 \mu\text{S}$. The repetition rate is variable and can be adjusted from 0.8 pulse per second to 10 pulse per second. Single transients can be applied with the pushbutton on the front panel.

Two sets of output terminals allow either parallel or series injection into the power line. The series injection may be used on DC and AC lines. Parallel injection should be used on DC lines only. The output winding used for series injection can carry 25 A of power current. The output terminals are isolated from the chassis and the power cord.

FEATURES

- Provides output levels from 10 V to more than 400 V into 5Ω
- Adjustable pulse position on AC lines relates the transient susceptibility to real time aspects of digital systems
- Single pulse feature for controlled isolation of transient effects
- Output terminals for series and parallel injection
- Standard rack panel construction: 19" wide x 7" high x 12.75" deep (48.26 cm x 17.78 cm x 32.38 cm)



SPECIFICATIONS



Spike amplitude: Continuously adjustable from 10 V to over 400 V peak

Repetition rate: Continuously adjustable from 0.8 to 10 pulse per second

Rise time: $1.5 \pm 0.5 \mu\text{S}$ into 5Ω

Spike duration: Output falls to zero in $5 \mu\text{S} \pm 22\%$.

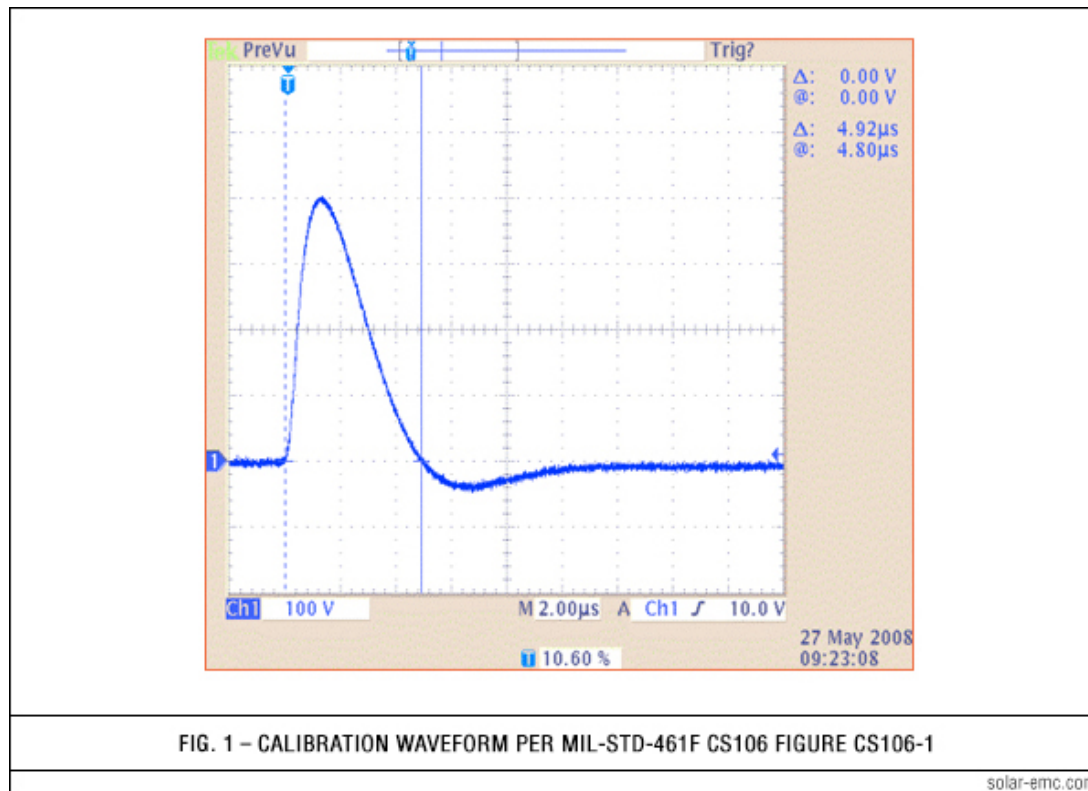
Spike shape: Ringing characteristic as shown in Figure CS106-1 in MIL-STD-461F

Phase adjustment: Pulse position adjustable from 0° to 360° periodically on 50, 60 or 400 Hz sine wave

Internal impedance: Less than 2.0Ω

Power requirements: 115 V 60 Hz, 1.6 A (230 V, 50 Hz, 0.8 A available)

Dimensions, standard rack panel: 19" wide x 7" high x 12.75" deep (48.26 cm x 17.78 cm x 32.38 cm)



USEFUL ACCESSORIES

ACCESSORIES RECOMMENDED FOR CS106 TESTING

Solar Type 8525-1 5 Ω Non-Inductive Load

Solar Type 9133-1 10 μ F Delta Capacitor Assembly

Solar Type 9146-1 10 μ F 'Wye' Capacitor Assembly

Solar Type 9233-50-TS-50-N Line Impedance Stabilization Network

Solar Type 7032-1 Power Line Isolation Transformer

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