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MODEL HVP-540-DPHT HIGH VOLTAGE PULSERS DATA SHEET 751

MODEL HVP-540-DPHT HIGH VOLTAGE PULSER

FEATURES

- ♦ Output up to 10 KV
- ♦ All Solid State
- ♦ High reliability
- ♦ 12ns Rise and Fall Times

DESCRIPTION



The Model HPV-540-DPHT is an advanced, flexible, solid state driver designed to suit a variety of applications. Based upon proprietary Quantum pulse technology, it offers a consistent low jitter performance. Featuring an adjustable high voltage output to 10 KV, the HVP-540-DPHT can be triggered up to 1 KHz continuous.

The Model HVP-540-DPHT can be thought of as operating a fast, digital ON-OFF switch coupled to a HV power supply. The output pulse amplitude is easily adjusted by changing the power supply voltage. The minimum pulse width is 400 nsec. Rise and fall times are less than 12 nsec with a 20 pF load. Options include digital programmable pulse width and delay plug-in modules.

Positive, negative or inverting output models are also offered. Applications include Q-Switch driver or Pockels cell shuttering, (using any Quantum's QC series Pockels cell), EMP testing, time of flight mass spectroscopy, micro-channel plate drivers or any other application requiring a flexible high voltage pulser.

Specifications

Output Voltage	0 to 10 KV
Rise and Fall Time	<12 nsec
Pulse Width	<400 nsec to DC
Jitter	<1nsec
Pulse Repetition rate	DC to 1 KHz
Trigger Requirement	3-5 Volt into 50 Ohm (TTL)
Display Accuracy	<1%
Size HxWxD	2.5x5.5x7.625 in ³
Weight	3 Lbs
Power Requirement	100/115/230 VAC, 50-60 Hz