



# QUANTUM TECHNOLOGY, INC.

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HIGH VOLTAGE  
POWER SUPPLIES  
DATA SHEET 770

## High Voltage Power Supplies for Electronic Drivers

Listed in Table 1 below is a list and specification of high voltage power supplies specifically designed to operate electronic drivers, such as those produced by Quantum Technology, Inc. These high voltage supplies produce low ripple, well regulated, low EMI/RFI emissions, and very stable operation under demanding conditions. They are also incorporated into European CE equipment produced by Quantum Technology. These power supplies are 100% tested to assure reliability for years of quality service.

All power supplies listed in Table 1 operate from the Quantum Technology (QT) operating control box, or A.C. Lines, 100Vrms through 240Vrms, at 50/60Hz, depending on the operating requirements. See table 2 for details of cabinet sizes. Please consult Quantum Technology for any specifics. D.C. Source, such as **24VDC**, is also available. Please contact Quantum Technology directly.

TABLE ONE

MODEL	DESCRIPTION	DETAILS (Can also be used on other systems)
HVPS-9003	30W POWER SUPPLY	AC line, 9KV, 3mA output, 63HP cabinet
PS-24-0000	24V POWER SUPPLY	24V, 2.1A - No HV- read and control 7GP10 & HVP-525
PS-24-5001	5W POWER SUPPLY	For 500Hz on HVP-525D, 5KV @ 1mA
PS-24-5003	15W POWER SUPPLY	For HVP-5M MODULES
PS-24-5006	30W POWER SUPPLY	HVP-590DR(20KHz), 5KV @ 6mA
PS-24-6005	30W POWER SUPPLY	for 3KHz on HVP-525D, 6KV @ 5mA
PS-24-6010	60W POWER SUPPLY	60W power supply, 6KV @ 10mA
PS-24-6020	120W POWER SUPPLY	120W power supply, 6KV @ 20mA
HVPS-6040	240W POWER SUPPLY	For 250w, 5KV @ 40mA
HVPS-9006	60W POWER SUPPLY	HVP-590DM, 9KV @ 6mA
PS-24-9003	30W POWER SUPPLY"	For 2KHz on HVP-595D, 590D, 590N, 9KV @ 3mA
PS-24-9006	60W POWER SUPPLY	For HVP-525-7KV-LP, 9KV @ 6mA
HVPS-9012	120W POWER SUPPLY	For 50KHz 7GP10(7GP50)63 HP cabinet, 9KV @ 12mA
PS-300	300 V POWER SUPPLY	Bias supply: +/- 300 and variable, ~1/2 small cabinet

The A.C. Line adapter is designated by: **AC - HVPS - (series number) - (Input AC voltage)**.

TABLE TWO  
**STANDARD POWER SUPPLY SIZES**

Power Supply Series	Height	Width	Depth
PS-24	6.36 cm 2.5 inches	17.78 cm 7 inches	22.86 cm 9 inches
PS-300	6.36 cm 2.5 inches	7.62 cm 3 inches	12.7 cm 5 inches
HVPS	17.78 cm 7 inches	48.26 cm 19 inches	45.72 cm 18 inches

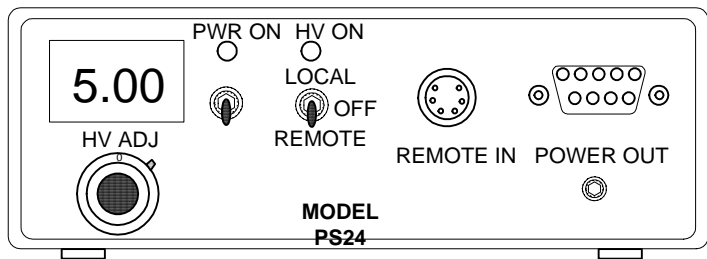
## MODEL PS-24 SERIES HV POWER SUPPLIES FOR HV PULSERS AND OTHER DRIVER SYSTEMS

The PS-24 is a power supply controller for the 5GPXX, 9GPXX, HVP-5XX-S and HVP-5XX-N pulsers which permits ease of HV adjustment and maintains the remote control function of the HV drivers. The external control functions are remote HV disable, remote HV control and remote rep rate control of the pulsers. The unit also supplies the DC power necessary for the pulser for the fans, logic and HV drive circuits.

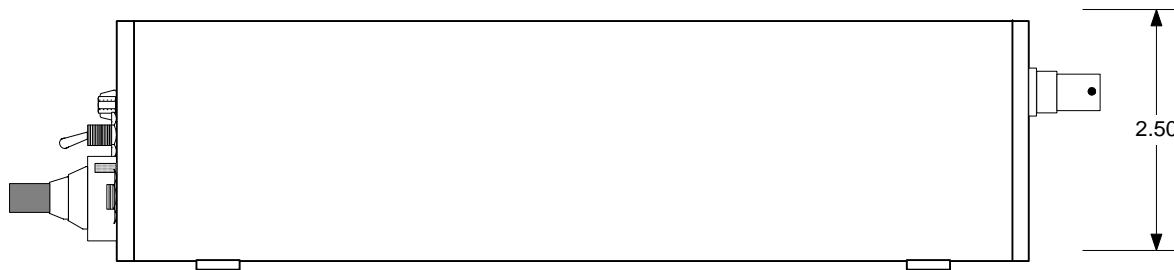
<b>Remote/Off/Local switch:</b>	The HV is controlled by this switch and is off in the middle position and remote/local in the respective switch positions.
<b>HV adjust knob:</b>	This knob sets the HV level 10 turn potentiometer.
<b>5 pin mini DIN connector:</b>	<p><b>Pin 1</b> is 0-10V frequency control where 10V input is approx. 10 KHz typical on the HV pulser; note 10KHz rep rate may or may not be possible depending on the model of HV pulser.</p> <p><b>Pin 2</b> is the signal ground.</p> <p><b>Pin 3</b> is the disable where 0 volts or open circuit enables the HV and a voltage from 3 to 10 VDC disables the HV on the pulser.</p> <p><b>Pin 4</b> is no connection.</p> <p><b>Pin 5</b> is remote HV control, typically 0-5 VDC for full output on the 7GPXX and 5GPXX. The level is 0-10V for the HVP-59X-S and HVP-5XX-S models where the output voltage is controlled by 1 Volt input to 1 KV output ratio and the max HV is limited internally in these units for protection.</p>
<b>DB-9 Power out to pulser:</b>	<p><b>Pin 1</b> is the disable output to the driver, 5V typ.</p> <p><b>Pin 2</b> is ground.</p> <p><b>Pin 3</b> is DC bias voltage of up to 400V!</p> <p><b>Pin 4</b> is no connection.</p> <p><b>Pin 5</b> is the 0-10V frequency control for the driver.</p>
<b>DC power connector:</b>	This connector supplies +24V @ upto 2.1A or +15V @ 0.7A as needed for the driver.

# MODEL PS-24

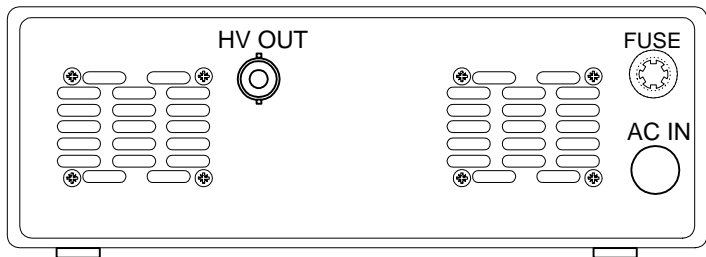
FRONT VIEW



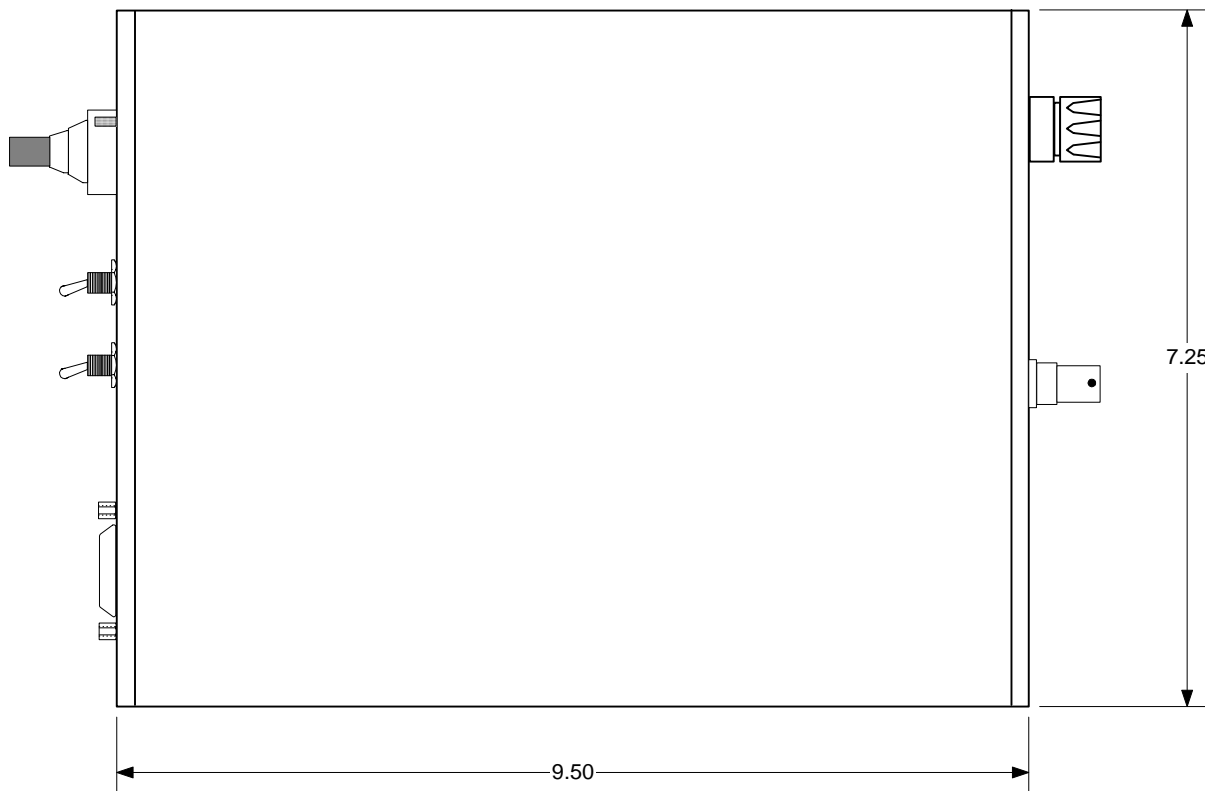
SIDE VIEW



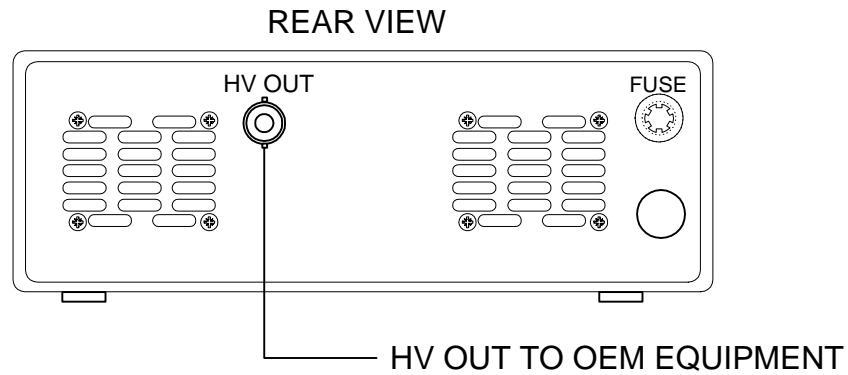
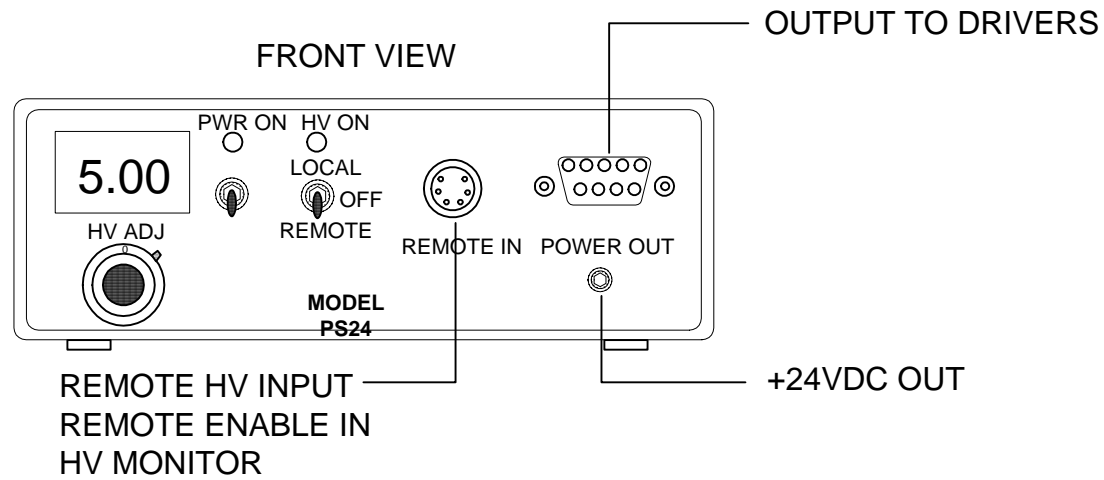
REAR VIEW



TOP VIEW



# MODEL PS-24



PS-24 HOOKUP DRAWING