



# QUANTUM TECHNOLOGY, INC.

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Model PS-24 SERIES  
HV POWER SUPPLIES  
DATA SHEET 777

## 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-59X-S 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.

- Remote/Off/Local switch:** The HV is controlled by this switch and is off in the middle position and remote/local in the respective switch positions.
- HV adjust knob:** This knob sets the HV level 10 turn potentiometer.
- 5 pin mini DIN connector:**
  - Pin 1** is 0-10V frequency control were 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.
  - Pin 2** is the signal ground.
  - Pin 3** 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.
  - Pin 4** is no connection.
  - Pin 5** 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.
- DB-9 Power out to pulser:**
  - Pin 1** is the disable output to the driver, 5V typ.
  - Pin 2** is ground.
  - Pin 3** is DC bias voltage of up to 400V!
  - Pin 4** is no connection.
  - Pin 5** is the 0-10V frequency control for the driver.
- DC power connector:** This connector supplies +24V @ upto 2.1A or +15V @ 0.7A as needed for the driver.

| MODEL NO.  | OUTPUT (nominal)           |
|------------|----------------------------|
| PS-24      | SUPPLIES 24V, 12A          |
| PS-24-5001 | 5KV, 1mA, 5W; 325V, 2mA    |
| PS-24-6005 | 6KV, 5mA, 30W; 325V, 2mA   |
| PS-24-6010 | 6KV, 10mA, 60W; 325V, 2mA  |
| PS-24-6020 | 6KV, 20ma, 120W; 325V, 2mA |
| PS-24-6040 | 6KV, 40mA, 250W; 325V, 2mA |
| PS-24-9003 | 9KV, 3mA, 30W; 325V, 2mA   |
| PS-24-9006 | 9KV, 6mA, 60W; 325V, 2mA   |
| PS-24-9012 | 9KV, 12mA, 120W; 325V, 2mA |
| PS-24-9024 | 9KV, 24mA, 250W; 325V, 2mA |
|            |                            |