

HIGH-VOLTAGE DC POWER SUPPLY

Precision power for electrospinning

Stable, low-ripple high-voltage output with digital monitoring, local control and comprehensive protection.



TL-HV SERIES

Rack-mount high-voltage source

Compact 1U architecture engineered for electrospinning systems, laboratory platforms and precision high-voltage applications.

482 x 350 x 45 mm

19-inch, 1U chassis

MODEL RANGE

+30 kV

+40 kV

+50 kV

-20 kV

-30 kV

-50 kV

ENGINEERED FOR CONTROL AND SAFETY

- Stable output**
 Line regulation <0.1%; load <0.5%.
- Low drift**
 Stability <=0.1%/h after warm-up.
- Digital monitoring**
 5-digit voltage; 4-digit current.
- Flexible control**
 Local potentiometer; remote I/O options.
- Multi-level protection**
 OV, OC, short-circuit, arc and OTP.
- Industrial enclosure**
 Ventilated steel chassis.

KEY SPECIFICATIONS

INPUT	90-264 VAC, 47-63 Hz
OUTPUT VOLTAGE	Up to +/-50 kV (model dep.)
OUTPUT CURRENT	0-1 mA
MAXIMUM POWER	50 W
TEMP. COEFFICIENT	<=0.1% / deg C
VOLTAGE CONTROL	Front-panel potentiometer

VOLTAGE ACCURACY	+/-0.05% rdg + 2 digits*
CURRENT ACCURACY	+/-0.3% rdg + 1 digit*
OPERATING TEMP.	-10 to +50 deg C
STORAGE TEMP.	-40 to +85 deg C
HUMIDITY	20-90% RH, non-condensing
INTERFACES	RS-232/485 USB LAN options

APPLICATIONS

Electrospinning | Materials research | Laboratory automation | HV testing

*At 25 deg C, 45-75% RH. Specifications may vary by model/configuration.

www.tlwnt.com