

Datasheet

Qosain Scientific PhysHivolt

Introduction:

PhysHivolt is a DC high voltage supply with a user adjustable range of 0 to 30 kV. It is designed to be used in electro-spinning, electro-spraying and other applications where a static voltage or a low power source is required. The supply has been tuned for minimal electromagnetic noise, resistance against short circuit and tolerance against overloading.

Features:

- Safe and reliable DC voltage source
- Output power of up to 30 W at 30 kV
- Overload and short circuit protection
- Digital voltage display

Specifications:

- High Voltage Supply Output
 - Output Voltage Range: 0 kV – 30 kV DC
 - Maximum Output Power: 30 W
 - Maximum Output Current: 1 mA
 - Resolution: 0.01 kV
- Safety Features
 - High Voltage Fuse Rating: 5 A
 - Resistive Limiters: 300 MΩ
 - Chassis grounded
- Other Specifications
 - Discharge Distance: ≤ 4 cm at 30 kV Output
 - Ripple: ± 5 % at 30 kV Output
 - Controls ON: Toggle Switch
 - Voltage Control: Knob
 - Physical Dimensions: 15 cm x 25 cm x 32 cm (H x W x D)
 - Weight:

Work Environment

- Temperature
 - Operating: +5 °C to +50 °C
 - Non-operating: +5 °C to +70 °C
- Humidity
 - 0 °C to +30 °C: $\leq 95\%$ relative humidity
 - +30 °C to +40 °C: $\leq 75\%$ relative humidity
 - +40 °C to +50 °C: $\leq 45\%$ relative humidity

Typical Applications

- Electrospinning and electro spraying
- High voltage for avalanche photodetectors
- Plasma generation

Resources

- Instrument URL:
www.physlogger.com/PhysHivolt.html
- Discussion:
www.community.physlogger.com/c/research/physhivolt/16

