



## Specification for AC Input 2kV 50mA High Voltage Power Supply

### I、Electrical Characteristics

Input Voltage:	220VAC (from 210 to 250VAC)
Input Current:	Maximum 2.5A under all operating conditions
Output Voltage:	0 to 2000V positive with respect to the ground input
Output Current:	Maximum 55mA
Polarity:	positive
Efficiency:	>85%
Ripple:	Better than 0.1% peak to peak at full load
Voltage Regulation:	Better than 0.1% over above specified input variation
Load Regulation:	Better than 0.1% over above specified load variation
Temperature Coefficient:	<200ppm/°C

### II、PINS definition are:

PIN1	PIN2:	voltage monitor, 0-10V output
PIN3	PIN4:	Ground
PIN5	PIN6:	High Voltage Demand, Input. 0 to 10V=0 to -2000V
PIN7	PIN8:	current monitor, 0-10V output
PIN9	PIN10:	current program, 0-10V input
PIN11	PIN12:	10V reference
PIN13	PIN14:	GND
PIN15	PIN16:	Safety Enable, OPEN CIRCUIT=HV ON, GROUNDED=HV OFF
PIN17	PIN18:	GND
PIN19	PIN20:	NC

### III、Operating Environment



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英国真维特 (GENVOLT) 高压设备公司  
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The unit is designed for operation in a free-air ambient from 0°C to +40°C.  
The unit is not be hermetically sealed and so the atmosphere should be non-condensing

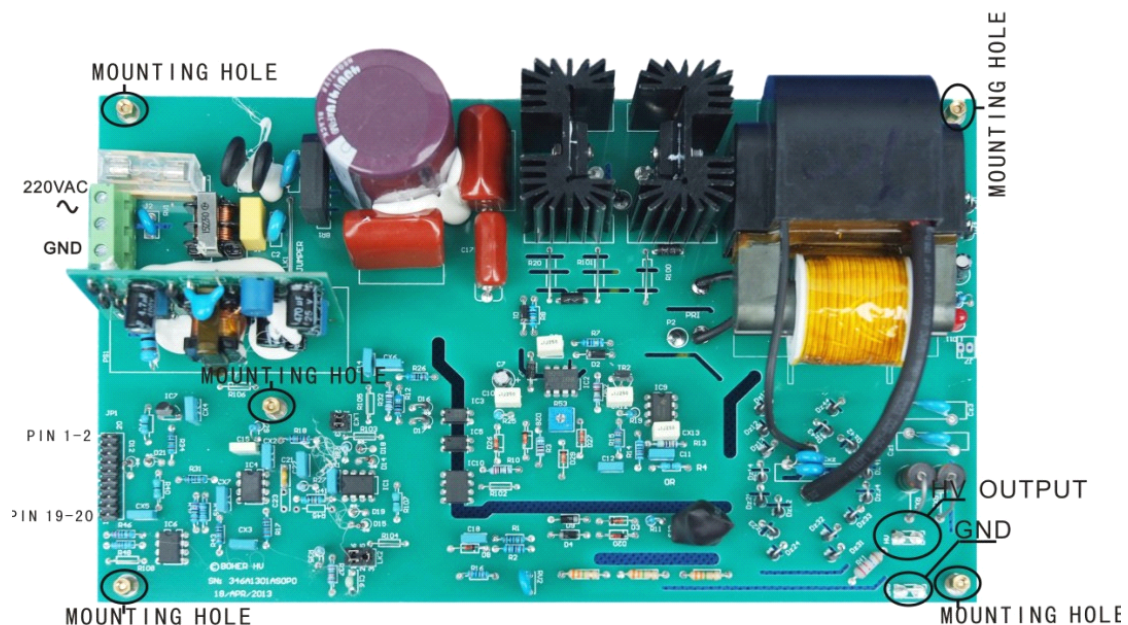
#### IV、Protection

Overload short-circuit and Input reverse polarity Protection  
When one of these defaults occurs and output current rises to about 1.1mA, the unit should fall in constant current mode. In case arcing, the psu will be tripped for short time and restart again

#### V、Dimensions

The power supply is 250mm long x 140mm wide x 8mm high.

#### VI、Instruction for use



##### 1、HV feedback and current feedback

Users can monitor HV output from the voltage of pin 1  
And also can monitor current from the voltage of pin 7

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## 2、HV demand and current demand

The converter provide a 10V reference,users can use potentiometer for voltage regulation and current regulation.

## VII、Considerations

The product can generate high voltage,affecting safety of persons,so non-professional prohibit maintenance。

## VIII、Special attentions

The potentiometers for voltage regulation and current regulation must connect with the unit correctly,Otherwise,the power will be damaged .

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