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Spellman's Bertan brand of 606C modular high voltage power supplies offer well regulated, fix polarity outputs up to 30kV, which operate off a +28Vdc input (+24Vdc optional). These fully enclosed modules are designed for bench top or OEM applications like spectrometers, detectors, imaging and electron beam usage.

The output voltage can be controlled by either a local internal potentiometer or by a customer provided ground referenced signal for remote operation. Additionally ground referenced output voltage and current monitor signals are provided. A high voltage enable signal input allows remote control of the supply.

TYPICAL APPLICATIONS

Spectrometers Detectors

SPECIFICATIONS

Input Voltage:

+28Vdc, ±10%, @ 2.25 amps +24Vdc, ±10%, @ 2.5 amps (24V Option)

Output Polarity:

Positive or negative, specify at time of order

Output Voltage:

See "model ratings" table

Output Current:

See "model ratings" table

Voltage Regulation

Line: ±0.001% of rated output voltage over specified input voltage range

Load:±0.002% of rated output voltage for a

full load change

Ripple:

See "model ratings" table

• 1-30KV @ 12-30 WATTS

- DC INPUT MODULAR POWER SUPPLY
- EXCELLENT REGULATION
- VERY LOW RIPPLE
- ARC SHORT CIRCUIT PROTECTED

Stability:

≤0.01% per hour, after a 1/2 hour warm up

Temperature Coefficient:

≤50ppm/°C

Arc/Short Circuit:

All units are fully arc and short circuit protected and will limit continuous short circuit output current to less than 110% of maximum rated output current.

Operating Temperature:

0°C to +50°C

Storage Temperature:

-40°C to +85°C

Humidity:

20% to 85% RH, non-condensing

Interface Connector:

9 pin Molex, mating connector and pins provided

Output Connector:

10' (3 meter) detachable HV cable is provided for units up to 5kV; 10kV through 20kV: 59" (1.5 meter) cable; 30kV: 78" (2 meter) cable

Cooling:

Convection cooled

Dimensions:

5.0"H X 5.50"W X 4.75"D (128mm x 140mm x 121mm)

Weight:

≤3.2 pounds (1.45kg)



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MODEL RATINGS TABLE

۱	Model	Output Voltge	Output Current	Ripple (Vpp)
	606C-10P,N	0 to 1kV	0 to 30mA	15mV
	606C-15P,N	0 to 1.5kV	0 to 20mA	15mV
ı	606C-30P,N	0 to 3kV	0 to 10mA	30mV
ı	606C-50P,N	0 to 5kV	0 to 5mA	50mV
ı	606C-100P,N	0 to 10kV	0 to 2mA	200mV
ı	606C-150P,N	0 to 15kV	0 to 1.5mA	450mV
ı	606C-200P,N	0 to 20kV	0 to 1.0mA	800mV
۱	606C-300P,N	0 to 30kV	0 to 0.4mA	6 volts

Specify "P" for positive polarity or "N" for negative polarity

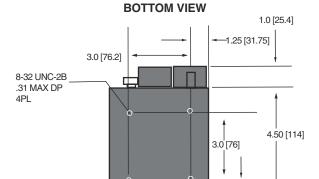
INTERFACE CONNECTOR-P2

PIN	SIGNAL	SIGNAL PARAMETERS
1	Power Ground	Power Ground
2	Power Input	+28Vdc Power Input (+24Vdc optional)
3	Signal Ground	Signal Ground
4	Voltage Program	0 to 5Vdc = 0 to 100% rated output, $1M\Omega$ Zin
5	+5.0Vdc Reference	+5.0Vdc, 10mA maximum
6	kV Monitor	0 to 5Vdc = 0 to 100% rated output, 10KΩ Zout
7	mA Monitor	0 to 5Vdc = 0 to 100% rated output, $10K\Omega$ Zout
8	Trip Input	Connect to ground to trip unit off
9	Local Voltage Program	Internal program potentiometer wiper, 0 to 5Vdc

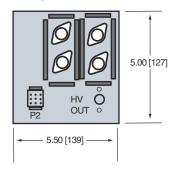


TOP VIEW



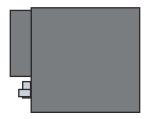


FRONT VIEW



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REAR VIEW







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