

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*



()

PTV SERIES

- Output Voltages from 1kV to 70kV
- EMI/RFI Input Filter
- Internal 10V Ref and Output Inhibit Via TTL Signal
- OEM Customization Available

Data Sheet (/web/20161225210559/http://www.spellmanhv.com/-/media/Files/Products/PTV.pdf)
Product Manual (/web/20161225210559/http://www.spellmanhv.com/-/media/Files/Technical-Resources/Manuals/PTVMAN.pdf)

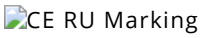
GET A QUOTE

200W, 350W HIGH VOLTAGE POWER SUPPLIES

Spellman's PTV Series of modular high voltage power supplies deliver up to 350W of continuous power. A quasi-resonant inverter design provides over 80% efficiency with very fast dynamic response. PTV power supplies incorporate extensive standard features in two power output ranges (200W and 350W) with a wide range of output voltages operating to the most exacting specifications.

Typical applications:

- Projection Television
- X-ray Systems
- E-beam Systems
- Capacitor Charging systems
- CPT/CRT Testing



SPECIFICATIONS

(Rev. 128007-001 REV. H)

Input:

115Vac±10%, 50/60Hz.
220Vac±10%, 50/60Hz.
Optional: 100Vac±10%, 50/60Hz.
Specify at time of ordering.

Output:

Models from 1kV to 70kV, 200W or 350W. Each model is available in positive or negative polarity outputs.

Voltage Regulation:

Load: 0.01% of output voltage no load to full load.

Line: ±0.01% for a ±10% change in input voltage.

Current Regulation:

Load: 0.01% of output current from 0 to rated voltage. Line: 0.01% of rated current over specified input range.

Efficiency:

80%, typical.

Ripple:

PTV200: 0.1% p-p of output voltage.
PTV350: 0.2% p-p of output voltage.

Switching Frequency:

45-65kHz, nominal

Temperature:

Operating: 0°C to +40°C.
Storage: -40°C to +85°C.

Voltage Temperature Coefficient:

0.01%/°C

Stability (voltage & current):

0.01%/hr after 1/2 hour warm-up.
0.02% per 8 hours.

Cooling:

200W: Convection cooled.
350W: Fan cooled, rear air intake.

Dimensions:

1-40kV: 33/16”H x 103/4”W x 10”D
(8.1cm x 27.3cm x 25.4cm).

50-70kV: 43/16”H x 107/8”W x 1113/16”D
(10.65cm x 27.6cm x 35.1cm).

HV Output:

Flying lead 18”±1”(45.7cm) UL listed.
AMP LGHI connector available for 40kV only.

Power Input Connector:

IEC320.

AC Line Voltage Input Cable:

Length: 8’ (2.4m).

Regulatory Approvals:

Compliant to 2004/108/EC, the EMC Directive and 2006/95/EC, the Low Voltage Directive. UL/CUL recognized, File E148969 (up to 5kV only).

PTV SELECTION TABLE

200 Watt Model PTV200			350 Watt Model PTV350		
kV	mA	Model Number	kV	mA	Model Number
1	200	PTV1*200	1	350	PTV1*350
3	70	PTV3*200	3	117	PTV3*350
5	40	PTV5*200	5	70	PTV5*350

200 Watt Model PTV200
350 Watt Model PTV350

5	40	PTV5*200	5	70	PTV5*350
10	20	PTV10*200	10	35	PTV10*350
15	14	PTV15*200	15	23	PTV15*350
20	10	PTV20*200	20	18	PTV20*350
25	8	PTV25*200	25	14	PTV25*350
30	7	PTV30*200	30	12	PTV30*350
40	5	PTV40*200	40	9	PTV40*350
50	4	PTV50*200	50	7	PTV50*350
60	3.3	PTV60*200	60	5.8	PTV60*350
70	2.85	PTV70*200	70	5.0	PTV70*350

*Specify “P” for positive polarity or “N” for negative polarity.

INTERFACE CONNECTOR 9 PIN

Pin	Signal	Parameters
1	+10Vdc Reference	+10Vdc @ 1mA, maximum
2	Current Program	0 to 10Vdc = 0 to 100% rated output, Zin = 10MΩ
3	Voltage Monitor	0 to 10Vdc = 0 to 100% rated output, Zout = 10kΩ
4	Voltage Program	0 to 10Vdc = 0 to 100% rated output, Zin = 10MΩ
5	Common Ground	Power Ground
6	Current Monitor	0 to 10Vdc = 0 to 100% rated output, Zout = 10kΩ
7	Enable/Inhibit	Ground = Inhibit, Open = HV ON
8	OVP Indicator	Collector w/1kΩ pull up to +5Vdc, transistor on =OVP
9	Signal Return	Signal Return

TABLES & DIAGRAMS

DIMENSIONS: in.[mm]

TOP VIEW


PTV High Voltage Power Supply (Image 2)

BACK VIEW


PTV High Voltage Power Supply (Image 3)

SIDE VIEW


PTV High Voltage Power Supply (Image 4)

Note: All specifications are subject to change without notice. Please consult the PDF version (/web/20161225210559/http://www.spellmanhv.com/-/media/Files/Products/PTV.pdf?la=en) of this datasheet for the most up-to-date revision.



2017 PRODUCT CATALOG

Spellman's High Voltage Power Supply Catalog features a complete listing of all standard Modules, X-Ray Sources, Rack, X-Ray Generator and Application Specific Products.

DOWNLOAD (/WEB/20161225210559/HTTP://WWW.SPELLMANHV.COM/-/MEDIA/CORPORATE/MEDIA/FILES/HOME/SPELLMAN.PDF)



2016 HIGH VOLTAGE REFERENCE MANUAL

We compiled all of our useful FAQ's, application notes, articles, technical papers and three glossaries into a single handy reference guide.

DOWNLOAD (/WEB/20161225210559/HTTP://WWW.SPELLMANHV.COM/-/MEDIA/FILES/TECHNICAL-RESOURCES/MANUALS/HV_REF_MANUAL.PDF)

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP