

High power HV power supply module

High performance modular design

W series ■■■

— 1kV to 40kV/
120W, 200W, 300W, 350W —

- > Compact · Light weight
- > Remote control · monitor
- > CC · CV automatic crossover
- > High efficiency
- > Full protection for output short circuit and arc
- > Wide output lineup

APPLICATIONS
* Electron Beam / Ion Beam
* Electrophoresis / Bio
* Automatic Test Equipment
* X-ray Inspection System
* Capacitor Charge



SUMMARY

The W series is a compact, high power module with AC input. It is best suited for CRT evaluation, x-ray systems, and capacitor charging applications. Equipped with full remote control capabilities and monitors, it features a wide range of outputs from 500V to 40kV / 120W to 350W.

LINEUP

Output Voltage (kVdc)	120W			200W			300W to 350W		
	Output Current (mA)	Model	Ripple (p-p)	Output Current (mA)	Model	Ripple (p-p)	Output Current (mA)	Model	Ripple (p-p)
0 to 0.5	0 to 240	W1-0.5*	0.2%	0 to 400	W2-0.5*	0.5%	0 to 700	W3-0.5*	0.5%
0 to 1	0 to 120	W1-1*	0.2%	0 to 200	W2-1*	0.2%	0 to 350	W3-1*	0.3%
0 to 1.5							0 to 200	W3-1.5*	0.3%
0 to 3	0 to 40	W1-3*	0.2%	0 to 67	W2-3*	0.2%	0 to 117	W3-3*	0.3%
0 to 5	0 to 24	W1-5*	0.2%	0 to 40	W2-5*	0.2%	0 to 70	W3-5*	0.3%
0 to 10	0 to 12	W1-10*	0.2%	0 to 20	W2-10*	0.2%	0 to 35	W3-10*	0.3%
0 to 20	0 to 6	W1-20*	0.2%	0 to 10	W2-20*	0.2%	0 to 17.5	W3-20*	0.3%
0 to 30	0 to 4	W1-30*	0.5%	0 to 6.7	W2-30*	0.5%	0 to 11.7	W3-30*	0.5%
0 to 33	0 to 3.5	W1-33*	0.5%						
0 to 35	0 to 3.3	W1-35*	0.5%						
0 to 40	0 to 3	W1-40*	0.5%	0 to 5	W2-40*	0.5%	0 to 8.7	W3-40*	0.5%

*P for Positive, N for Negative Polarity

SPECIFICATIONS

Input Voltage AC115V ±10% 50/60Hz

Output Voltage Control Via external voltage source 0 to 10V or external 5kΩ potentiometer

Voltage Regulation Line : ±0.02%(of max voltage for Input ±10% change)
Load : 0.02%(of max voltage for full load change)

Current Regulation Line : ±0.1%(of max current for Input ±10% change)
Load : 0.2%(of max current for full load change)

Stability 0.02%/Hr, 0.05%/8Hr(at voltage operation)
0.05%/Hr, 0.1%/8Hr(at current operation)

Temperature coef. 200ppm/°C(at voltage operation)
500ppm/°C(at current operation)

Monitor 0 to 10V, ±1%(at max rated output)

High Voltage ON/OFF Short = HV ON, Open = HV OFF

Protection Protection against overvoltage, over current, short circuit, arc and over temperature

Efficiency 80% typ.

Temperature range Operating : 0 to +50°C
Storage : -40 to +85°C

Humidity 20 to 80%RH(no condensation)

Accessory HV shielded output cable(flying lead) 2.5m(1)
AC input cable 2.5m(1)
Fixing screws control connector D-sub 25pin.

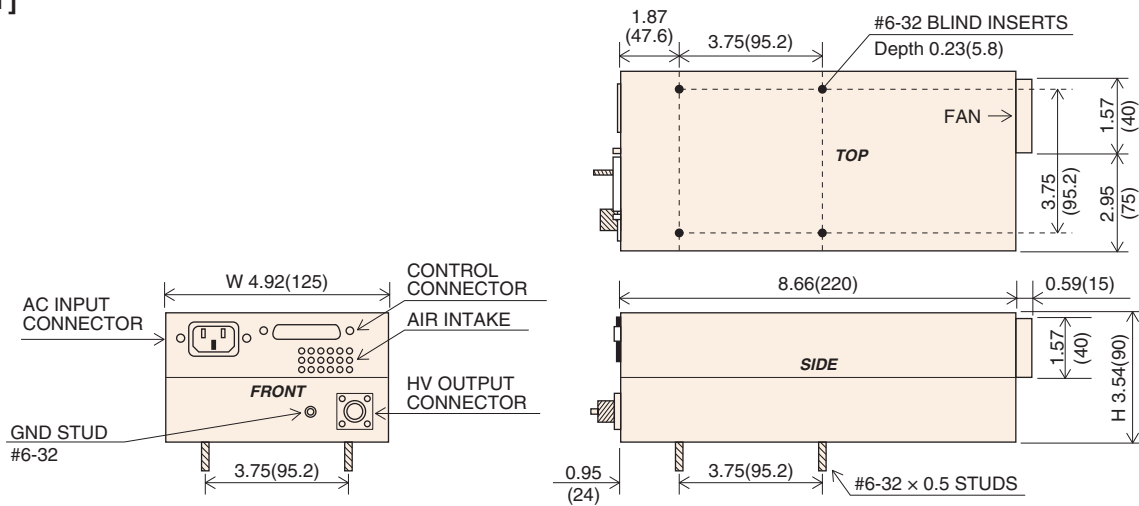
Other function

- Voltage, Current Program(0 to 10V, 0 to 5kΩ)
- Voltage, Current Monitor(0 to 10V)
- HV ON/OFF • Interlock
- HV status • 10.24V reference

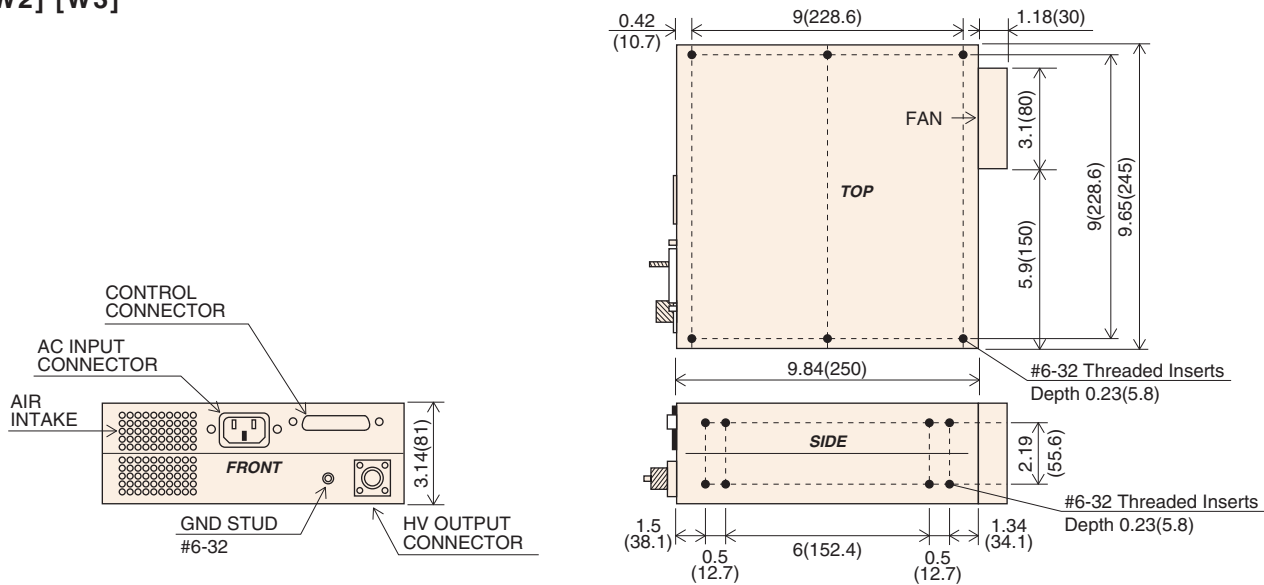
*These specifications are at the maximum rated output after a warm-up period unless otherwise specified.
The external appearance and specifications of all products shown in this catalog are subject to change without notice.

DIMENSIONS inch(mm)

[W1]



[W2] [W3]



OPTIONS

- L(100V) Input Voltage AC 100V±10%
- L(200V) Input Voltage AC 200V±10%
- L(230V) Input Voltage AC 230V±10%

*When ordering, please suffix L Mark(option mark) to the model number.
{e.g.}W1-0.5P-L(230V)