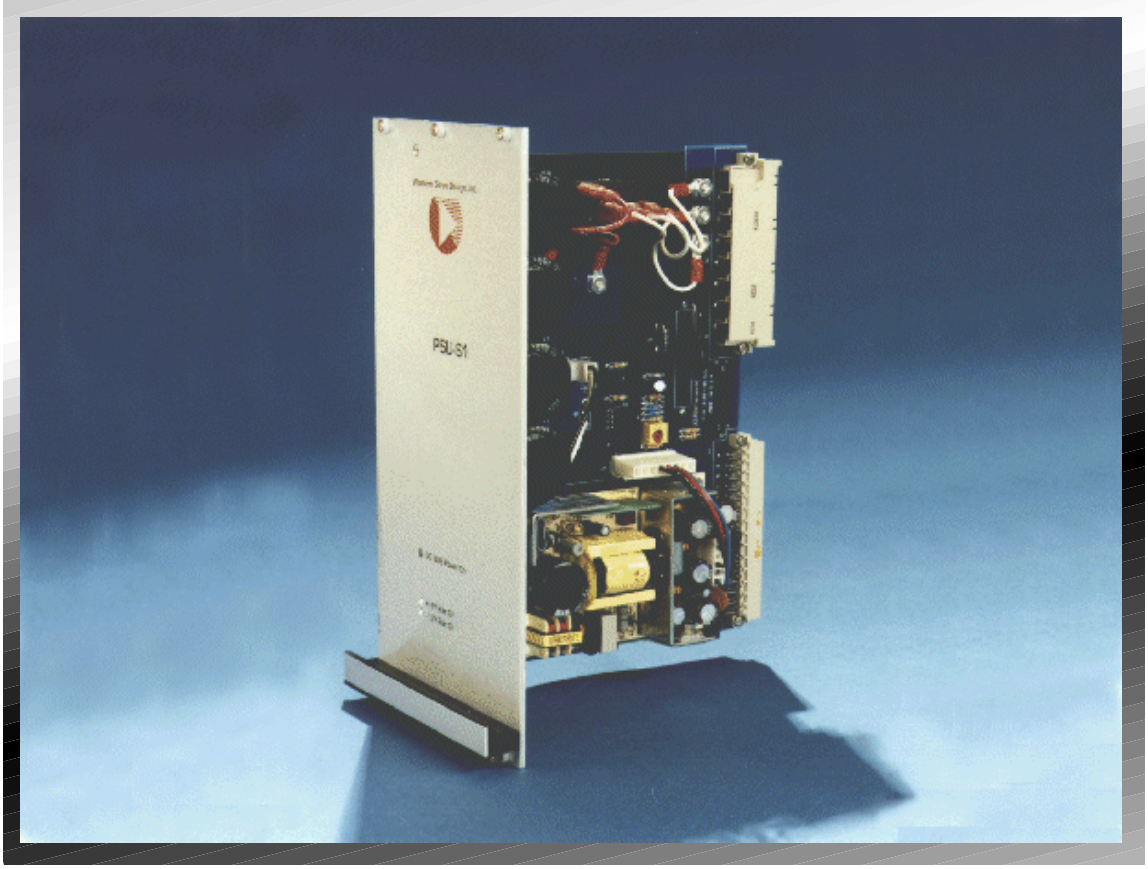
Product:	Used For:	Mounting:	Power:	#of Axes:
Power Supply	High Voltage Rack Products	Stand Alone or Rack Mount	Up to 320 VDC @ 50 A	N/A

PSU-S1

Eurocard Form Factor High-Voltage Power Supply



The PSU-S1 is a power supply module in a 6U Eurocard form factor. Intended for use as a Bus and Bias supply for high voltage Western Servo Design amplifiers (e.g., PAU, and BPU), the PSU-S1 can be used in a Eurocard (or "VME") style chassis, or as a stand alone unit.

The PSU-S1 contains an unregulated DC Bus output, a regulated Bias output (±12VDC), a 12VDC output for cooling fans, and a built-in Shunt Regulator. When PWM amplifiers are used, the Shunt Regulator prevents back EMF generated by the motors from damaging components in the Bus Supply and Amplifiers.

An optional backplane is available to allow quick and easy access to the inputs and outputs for the power supplies and the Shunt Regulator. This greatly simplifies implementing the PSU-S1 in a motion control system.

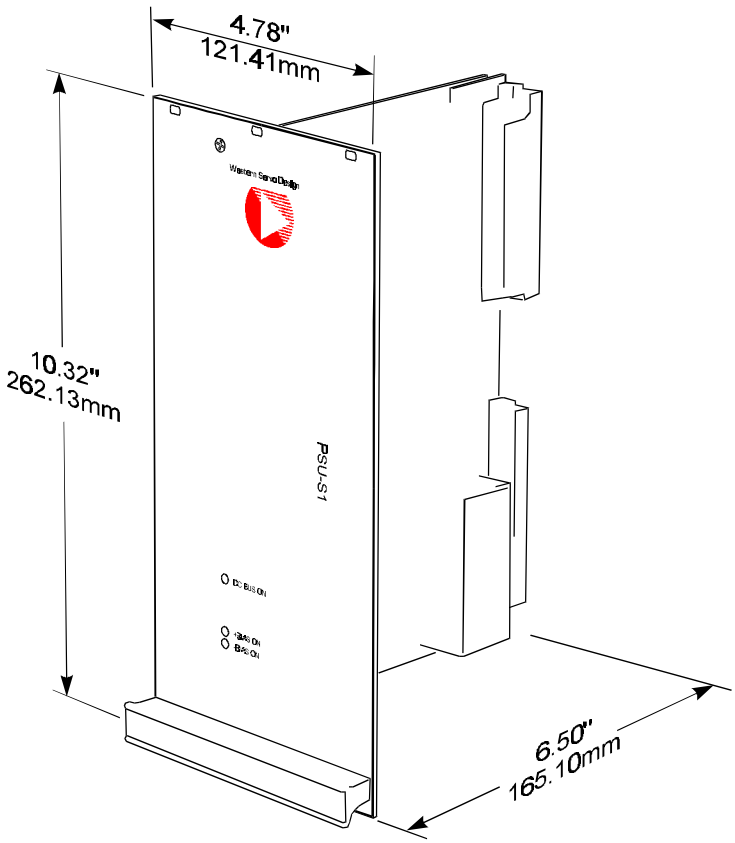
- Eurocard 6U Form Factor
- Contains Bus Supply, Bias Supply and 12VDC Fan Supply
- Built-In Shunt Regulator
- Front Panel Status LEDs for Bias Supply, Fan Supply and Shunt Regulator Fuse
- 30 Amp and 50 Amp Models Available
- Optional Backplane Simplifies System Connection
- Advanced Design, High Quality and High Reliability at a Lower Cost

SPECIFICATIONS

Standard Options	32/30	32/50
Maximum AC Input Voltage	230 VAC	
Minimum AC Input Voltage	100 VAC	
Bus Voltage Output	Approx. 1.4 x VAC in: 320 VDC Max	
Bus Output Current*	30 A Continuous	50 A Continuous
Bias Voltage Output	+12 VDC @ 2 A, -12 VDC @ 1 A	
Cooling Fan Output	12 VDC @ 1 A	
Shunt Regulator Load	10 to 15Ω @ 200 W or more	
Weight	2.90 Lbs (1.32 Kg)	
Recommended Chassis	CH6U Eurocard	
Available Accessories	Backplane	

*All ratings with forced air cooling to maintain 40°C heat sink temperature. Failure to keep constant air flow to the heat sink will reduce the output current capacity and may result in damage to the unit.

The PSU-S1 can be connected directly to single-phase or three-phase AC. With a 120VAC input, the Bus Voltage will be 170VDC. With a 230VAC input, the Bus Voltage will be 320VDC.



PINOUTS

J1: INPUT & OUTPUT POWER

ROW D - w/Single Phase AC Input

Pin	Function
10	AC Line In: Hot
14	AC Line In: Neutral
18, 22	Bus Ground Output
26, 30	Bus +V Ouput

ROW Z - w/Single Phase AC Input

Pin	Function
8	AC Line In: Hot
12	AC Line In: Neutral
16, 20	Bus Ground Output
24, 28	Bus +V Ouput
32	External Shunt Resistor

ROW D - w/Three Phase AC Input

Pin	Function
6	AC Line In: Phase A
10	AC Line In: Phase B
14	AC Line In: Phase C
18, 22	Bus Ground Output
26, 30	Bus +V Ouput

ROW Z - w/Three Phase AC Input

Pin	Function
4	AC Line In - Phase A
8	AC Line In - Phase B
12	AC Line In - Phase C
16, 20	Bus Ground Output
24, 28	Bus +V Ouput
32	External Shunt Resistor

Pins not shown are No Connection

J2: BIAS POWER CONNECTOR

ROW A

Pin	Function
2	Bias +V Ouput (+12VDC)
4	Bias Ground

ROW C

Pin	Function
2	Bias -V Ouput (-12VDC)
4	Bias Ground
6	+5VDC Output

Pins not shown are No Connection

Consult User's Manual for Backplane connections and additional installation details.

Ordering Information:

Product	Order Number
PSU-S1-32/30 PS *320 VDC/30A Cont*	WS-009-0002
PSU-S1-32/50 PS *320 VDC/50A Cont*	WS-009-0005
ACC-V1Y Backplane	WS-011-0002

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