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TECHNOLOGY GROUP

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Expert team | Trust guarantee | 100% satisfaction

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Matsusada Precision

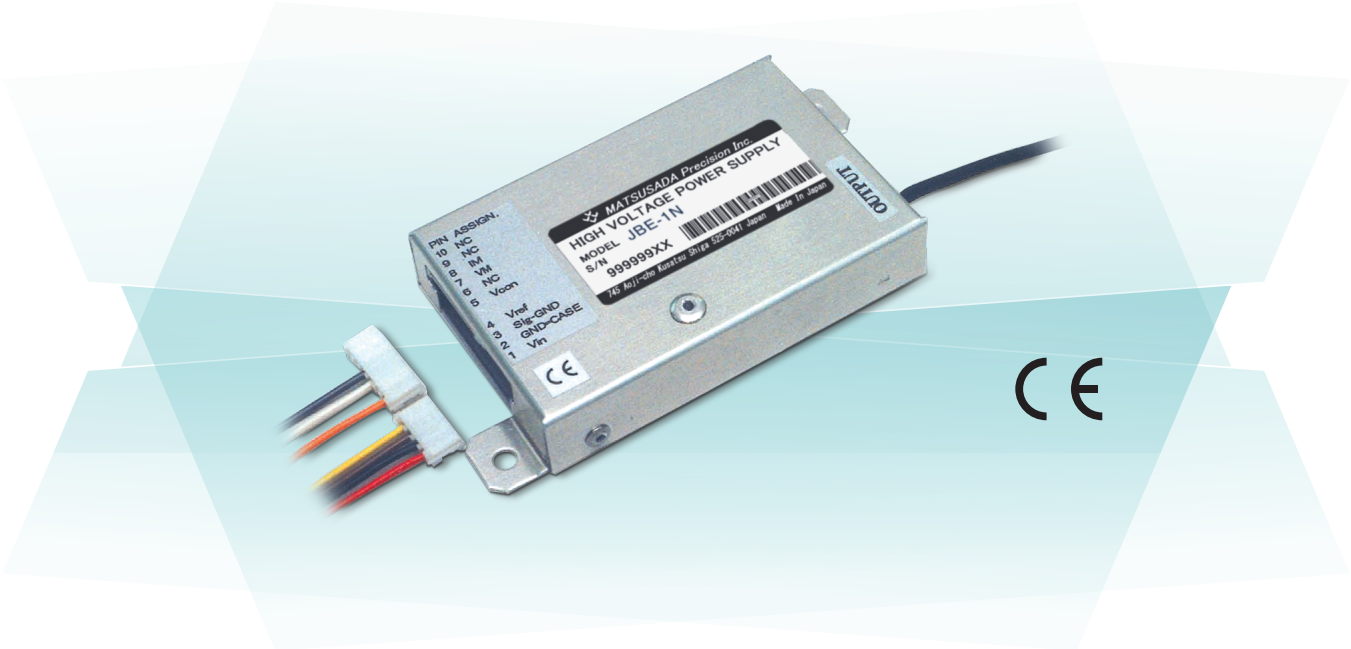
Photomultiplier Tube (PMT) High Voltage Power Supply
JB series

NEW

Photomultiplier Tube (PMT) High Voltage Power Supply

JB series

- 0.3kV/8mA/2.4W
- 0.6kV/3mA/1.8W
- 1kV/2.5mA/2.5W
- 1.5kV/1.5mA/2.2W
- 2kV/1mA/2W



- Ultra low noise 1mVp-p, high stability 15ppm
- Compact size occupied area below business card
- Excellent temperature coefficient of 20ppm/°C typ.

MADE IN JAPAN

www.matsusada.com

Photomultiplier Tube (PMT) High Voltage Power Supply

JB series

- Ultra low noise 1 mVp-p, high stability 15 ppm
- Excellent temperature coefficient of 20 ppm/°C typ.
- External output control and output monitor
- Extensive protection
- Broad output range
- CE marking approved (Low Voltage Directive)



SUMMARY

The JB series is an exceptional, high performance Photomultiplier Tube (PMT) power supply.
Barely larger than a business card, its features include ultra-low noise (1 mV) and a highly stable output (15 ppm).
It is also an excellent choice for photo tubes, GM tubes, and radiation counters.

APPLICATIONS

- Photomultiplier tube (PMT)
- MASS Spectrometry (MS)
- Scanning Electron Microscope (SEM)
- Electron beam/Ion beam
- Radiation counter

MODELS

The input terminal is different for JB and JBE. See "SPECIFICATIONS" for details.

Output voltage [kVdc]	Output current [mA]	Model				Safety standards	Ripple	
		Positive polarity output		Negative polarity output			High frequency	Low frequency
0 to 0.3	8	JB-0.3P	JBE-0.3P	JB-0.3N	JBE-0.3N	CE	1 mVp-p > 5 kHz	4 mVp-p ≤ 5 kHz
0 to 0.6	3	JB-0.6P	JBE-0.6P	JB-0.6N	JBE-0.6N			
0 to 1	2.5	JB-1P	JBE-1P	JB-1N	JBE-1N			
0 to 1.5	1.5	JB-1.5P	JBE-1.5P	JB-1.5N	JBE-1.5N			
0 to 2	1	JB-2P	JBE-2P	JB-2N	JBE-2N			

SPECIFICATIONS

These specifications, unless otherwise specified, at maximum rated output after warming up for 1hr, and scope of application is between 10% and 100% of maximum rated output.

Input voltage/current	+24 Vdc ±10%/300 mA typ.
Output voltage control	An external 5 kΩ potentiometer or external control voltage 0 to +10 Vdc (input impedance: 100 kΩ typ.)
Regulation	Line: 20 ppm for ±1 V input change, Load: 20 ppm for 10% to 100% load change
Stability	15 ppm/15 min, 50 ppm/8 Hr
Temperature coefficient	50 ppm/°C max, 20 ppm/°C typ.
Monitors	Output voltage and current, 0 to +10 Vdc (accuracy: ±2.5% of full scale) (output impedance 10 kΩ typ.)
Current limit	120% of maximum output current
Protection	Load short-circuit protection, Arc protection
Input terminal	JB: Connector is not attached. JBE: Mating connector pen foot (0.3 meters) leads assorted (Input connecters in list)

Model	JB		JBE	
	CN4-JB	CN5-JB	CN4-JBE	CN5-JBE
Manufacturer	Molex		J.S.T MFG. CO., LTD.	
Housing	22-01-3047	22-01-3057	EHR-4	EHR-6
Contact	08-50-0032		BEH-001T-P0.6	
Manual crimping tool	63811-8200		YC-260-R	

Output cable	Shielded cable (flying lead) 0.5 meters
Temperature range	Operating: -10°C to +50°C, Storage: -20°C to +70°C
Relative humidity	20% to 80%, non condensing

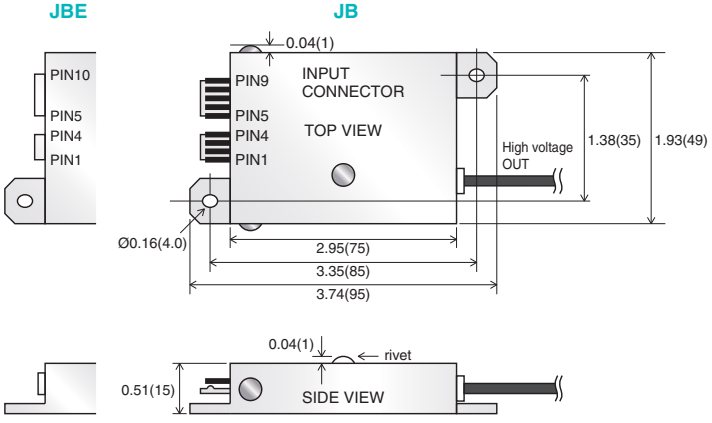
OPTIONS

-LMH: MHV OUTPUT CONNECTOR
-LSH: SHV OUTPUT CONNECTOR
Add -L Mark to the Model No. to order. **<Example> JB-0.6P-LMH**

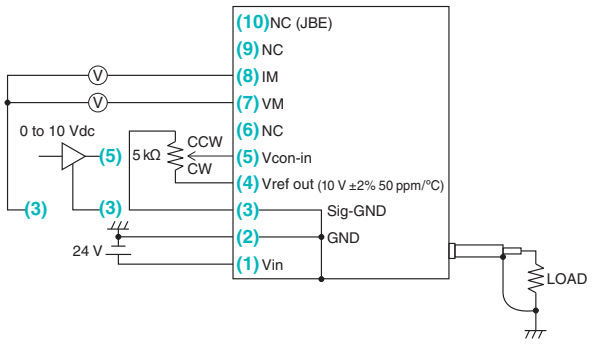
ACCESSORIES

CN4-JB & CN5-JB: Assembled input connector with 0.25 meters flying leads (accessory)
CN4-JBE & CN5-JBE: Assembled input connector with 0.3 meters flying leads (accessory)

DIMENSIONS inch (mm)



CONNECTION DIAGRAM



Who We Are

Matsusada Precision Inc. has manufactured High voltage power supplies for more than 50 years in Japan. Recognized by Japanese customers who demand high-quality levels, we have become a high voltage power supply manufacturer which has the highest market share in Japan. Currently, we are developing products not only for high-voltage power supplies, but also for DC power supplies, AC power supplies, electronic loads, high-voltage amplifiers, bipolar power supplies, and X-ray inspection equipment.
We have contributed to customers in various industries such as Semiconductor Production Equipment, Photomultiplier, IGBT, Electrostatic Chuck, Electron Beam, Electrospinning, Plasma, Motor for Electric vehicles, etc.
In addition, we have a direct sales system to respond promptly to customers. Our technical support team with many years of experience will respond promptly from Japan.

Our mission is to deliver products that meet Japan's strict quality standards to customers all over the world. We believe that if you contact us, you will surely find the power supply you need

Matsusada Precision



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We follow-up customers from japan

Contact Us
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