



Bay State Surface Technologies, Inc.

201 Washington Street Auburn, MA 01501 USA

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www.baystatesurfacetech.com

MODEL NO:
PS-2004

PRODUCT DATA SHEET



KEY FEATURES

- * Solid State Electronically Controlled
- * Compact Size
- * Built-in High Frequency Starter
- * 80 Load Volts at 1000 Amps

PS-Series

POWER SUPPLIES

FOR THE PG SERIES
PLASMAGUN SYSTEM



A Subsidiary of Aimtek, Inc.



Registered to
AS9100
(with ISO 9001)



The Materials
Information Society



ASM Thermal Spray Society
An Affiliate Society of ASM International



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PS - Series Power Supplies

PS-Series Power Supplies are specifically engineered to provide complete electrical power for the Bay State PlasmaGun System. Three-phase power is transformed into a regulated dc output through the use of Silicon Controlled Rectifiers. The standard Bay State Power Supply is 80 kW and rated for continuous duty operation.

The Power Supply is completely interlocked for operator safety. The thermal overload protection guards against excessive power loading. A self-contained high frequency oscillator initiates the PlasmaGun arc. PlasmaGun starting is instantaneous, thus the high frequency generator does not cause troublesome electrical disturbances.

The PS-2004 Power Supply is rated at 80 kW delivering 80 load volts at 1000 amps. The Power Supply is used with the CP-620 or CP-640 Control Console, generally operating with Argon, Argon/Hydrogen, Argon/Helium, Argon/Hydrogen/Helium, Nitrogen and Nitrogen/Hydrogen. It is capable of providing state of the art high velocity and high energy plasma parameters.

SPECIFICATIONS FOR PS-2004 POWER SUPPLY

Input Voltages: 220/240 460/480 50/60 Hz

(Other voltages available upon request)

Rated Output: 1000 Amps @ 80 VDC

Dimensions: 63" x 31" 56" H

Weight: 2,000 Lbs