

# P7000 Power Supply

## Reliable, Accurate, and Versatile Power

3.5 kW - 30 kW

The P7000 Power Supply is the most versatile power supply available on the market today and is designed to provide the widest range of flexibility to its users. Setting it in a class by itself, the P7000's load matching ability is capable of providing a range typical of variable frequency power supplies. This state-of-the-art power supply is designed to provide unrelenting, reliable power solutions for the most demanding applications.

The P7000 Power Supply features include:

- **Insulated Gate Bi-Polar Transistor (IGBT) Technology:** an IGBT is a three-terminal power semiconductor used as a high efficiency switch. They are often used in high-voltage, high-current situations with low-power inputs, as well as applications like induction cooktops, AC and DC motor drives, and in our power supplies to be used with our surface treaters. Pillar's IGBT is designed to deliver instant, consistent, and efficient power.
- **Proportional Speed Control:** allows power matching to line speed to deliver consistent watt density across changing line speeds. And, watt density control automatically matches power to line speed while still accounting for web width. Additionally, there are input transformers available for when input voltage does not match the power supply requirements.
- **4-to-1 Load Matching:** referring to the power supply's ability to provide full output power to various load conditions. These changes are typically caused when the system adjusts electrodes to match different treat widths, as well as when adjusting electrode sizes and changing from one roll covering type to another. With superior load matching, this allows the P7000 to match the power output relative to line speed and helps unlock the versatility of your line.
- **20-to-1 Turn-Down Ratio:** refers to the power supply's ability to fine-tune power output for different applications. With the best available turn down ratio in the industry, this ability allows operators to precisely turn the power up or down to achieve desired treat levels, while still being able to produce an even corona across the air gap. This is critical when a variety of different materials are to be treated or when proportional speed adjustments are automatically made.



Film Extrusion

Adhesive Coatings

Laminating and Printing



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## P7000 Power Supply Applications

The P7000 Power Supply can be used within a variety of applications such as packaging, tapes, labeling, textiles, and non-wovens, and also provides the energy needed to properly modify plastic films before laminating and printing. In addition to this, it's a great fit for cast film and extrusion processes, and can even work well in many adhesive coating applications. The P7000 Power Supply can be paired with any corona treater used in film extrusions, with the most common being Pillar's own Blown Film Stations.

## Additional Features and Benefits

- Extremely Low Mean Time Between Failures (MTBF): MTBF refers to the average time between system breakdowns which require repair. For example, with 1,000 operational hours and 8 breakdowns over the course of a year, you'd have an MTBF of 125 hours
- Construction: wall-mounted cabinet with front access doors, and HMI touchscreen for positioning near operator controls
- Small and compact economical design to improve cost savings, with high-precision output power
- Start/Stop contactor for safe, dependable operation
- Humidity compensation control to protect electronics in high humidity environments
- Industry 4.0 ready, CE and ETL Certified
- Digital LED displays Power, Voltage, Current, Frequency
- Enhanced efficiency, control, and diagnostics
- Menu-driven touchscreen, operator mobile
- Ability to run in Watt Density or Constant Power
- Multiple power supply connections
- Loss of treatment indicator
- Microprocessor controlled
- Smart user interface
- Watt Density Control
- Easy installation



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### Additional Available Options

- Computer Interface
- Connection Cable Set
- Flex High Voltage Cable
- Input Transformer
- P7000 Added Enclosure Cooling
- Power, Frequency, Amps, Volts Data Logging
- Remote Control Station
- Remote Operator Panel

### Product Specifications

P7000 Power Supply Specifications (Metric)					HV Output Transformer (Oil-Filled Type)		
Size (kW)	Height (mm)	Width (mm)	Depth (mm)	Weight (Kg)	Power Input (Volts AC/Phase)	Weight (Kg)	Dimensions - h x w x d (mm)
3.5	762	750	329	68	460/three	40	311 x 317 x 412
5	762	750	329	68	460/three	40	311 x 317 x 412
7.5	762	750	329	68	460/three	40	311 x 317 x 412
10	762	750	329	68	460/three	40	311 x 317 x 412
15	762	750	329	68	460/three	57	381 x 368 x 413
20	914	1054	329	125	460/three	103	470 x 368 x 516
25	914	1054	329	125	460/three	103	470 x 368 x 516
30	914	1054	329	125	460/three	103	470 x 368 x 516