

## Power Supply P6000 Series

The P6000 Series features IGBT (Insulated Gate Bi-Polar Transistor) technology providing the most versatile corona treater power supply on the market today. This compact unit incorporates a circuit design that enables instant and efficient power. The P6000 automatically adjusts itself to match into any electrode style or dielectric material and offers the operator better than 4 to 1 load matching.

The versatility of the P6000 Series Corona Treater Power Supply provides for a turn down ratio of 20 to 1, allowing the operator to precisely turn the power up or down to achieve the desired treat level. The specially designed power measurement circuit guarantees that the power specified is the power being delivered and the feedback circuit automatically maintains constant output power regardless of minor changes in load conditions, humidity and temperature.

### Benefits of the P6000 Series Power Supply

- Easy to install
- Accurate output power
- Small, compact design
- Low maintenance
- Superior “load match” for a wide range of applications
- Best available “turn down ratio” in the industry
- Economical design, improved cost savings
- User friendly “touch” control pad



*0.5kW-3.5kW Series*

*5.0kW-30.0kW Series*

### Features of the P6000 Series Power Supply

- Start/Stop contactor for safe, dependable operation
- CE or ETL certified
- Digital LED displays Power, Voltage, Current, Frequency
- Microprocessor controlled
- Power supply diagnostic indicators
- Loss of treatment indicator
- Humidity wetstart control

### What is Load Matching?

Load matching is the ability of a power supply to provide full output power to various load conditions. Typically, these changes in load are caused by adjusting electrodes to match different treat widths, although changes from one roll covering type to another or to different electrode sizes will also change load conditions.

### What is Turn Down Ratio?

Turn down ratio is the ability of a power supply to reduce the output power to the bare minimum and still 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.

### How does this relate to Pillar's P6000 Series Power Supply?

Pillar's P6000 has been designed to provide the widest range of flexibility to its user. Putting it in a class of its own, the P6000 load matching ability is capable of providing a range typical of variable frequency power supplies. The P6000 turn down ratio is unequalled by any other high frequency power supplies on the market.

# Power Supply

## P6000 Series

### Additional Specifications

<b>Construction</b>	Wall mounted cabinet with front access door*
<b>Power Input</b>	230 VAC (+/- 10%), 1-phase, 50/60 Hz on 0.5 kW-2.0 kW 230 VAC (+/- 10%), 3-phase, 50/60 Hz on 2.5 kW-3.5 kW 460 VAC (+/- 10%), 3-phase, 50/60 Hz on 5.0 kW-30.0 kW
<b>Power Output (kW)</b>	0.5, 0.75, 1.0, 1.5, 2.0, 2.5, 3.5, 5.0, 7.5, 10.0, 15.0, 20.0, 25.0, 30.0
<b>Power Control Technology</b>	Microprocessor Based Manual Power Control Insulated Gate Bi-Polar Transistor (IGBT)
<b>Panel Meter</b>	3-Digit LED Display
<b>Controls</b>	Start/Stop push buttons, touch pad
<b>Output Transformer</b>	Oil-Filled, Convection Cooled of matching into various load conditions

### Options Available

- Watt Density Control
- Skip Treat
- Proportional Speed Control
- Computer Interface
- Connection Cable Set
- Flex High Voltage Cable
- Input Transformer
- P6000 Water Cooling
- P6000 Added Fan Cooling
- HV Transformer Mount
- HV Switch Box
- Power, Frequency, Amps, Volts Data Logging
- Remote Control Station
- Remote Operator Panel
- Total Function Control (TFC)
- TFC with CAN Bus
- TFC with Profibus



*Total Function Control (Optional)*



*Watt Density Control (Optional)*

### P6000 Series Specifications

#### Power Supply Specifications

Size (kW)	Height(mm)	Width (mm)	Depth(mm)	Weight(kg)	Power Input (Volts AC/Phase)
0.50	406	406	224	20	230/single
0.75	406	406	224	20	230/single
1.0	406	406	224	20	230/single
1.5	406	406	224	20	230/single
2.0	406	406	224	20	230/single
2.5	508	406	280	27	230/three
3.5	508	406	280	27	230/three
5.0	762	750	329	68	460/three
7.5	762	750	329	68	460/three
10.0	762	750	329	68	460/three
15.0	762	750	329	68	460/three
20.0	914	1054	329	125	460/three
25.0	914	1054	329	125	460/three
30.0	914	1054	329	125	460/three

#### HV Output Transformer (Oil-Filled Type)

Weight(kg)	Dimensions H/W/D (mm)
34	260/292/362
34	260/292/362
34	260/292/362
34	260/292/362
34	260/292/362
34	260/292/362
34	260/292/362
40	311/317/412
40	311/317/412
40	311/317/412
57	381/368/413
103	470/368/516
103	470/368/516
103	470/368/516

\* Contact your ITW-ST agents for customized information. Dimensions and specifications subject to change without notice. Certified dimensions available on request.