

| <u>Performance</u>         | <u>Conditions</u>           | <u>Units</u> | <u>Rating</u> |
|----------------------------|-----------------------------|--------------|---------------|
| Bus Voltage                | Nominal                     | V            | 380           |
| Peak Load Voltage          | Minimum                     | V            | 300           |
| RMS Output Current         | Continuous - 300 Sec Window | A            | 135           |
| Peak Output Current        | 20 mSec                     | A            | 220           |
| Peak Output Current        | 250 mSec                    | A            | 150           |
| Max Power to Loads         | Long Term                   | kW           | 15            |
| Output Noise               | 1HZ - 1kHz                  | mA rms       | 0.5           |
| Output Noise               | 1HZ - 100Hz                 | mA rms       | 0.1           |
| Offset Current Drift       | Maximum After On 2 Hrs      | mA/C         | 0.15          |
| Rise Time to 220 A Current | Load of 70 mH and 100 mW    | mSec         | 60            |
| Settling Time              | 0.25% of Final Amplitude    | mSec         | 150           |
| Repeatability              | re Peak Value               | %            | 0.005         |
| Linearity                  | re Peak Value               | %            | 0.01          |
| PWM Frequency              | Effective                   | kHz          | 100           |
| Bandwidth                  | Small Signal for 70 mH Load | kHz          | 15            |
| Bandwidth                  | Large Signal for 70 mH Load | kHz          | 1             |

### System Specifications

|                          |                     |    |          |
|--------------------------|---------------------|----|----------|
| Minimum Load Inductance  |                     | mH | 70       |
| Load Resistance Range    |                     | mW | 50 - 300 |
| Maximum Load Capacitance | Across Load         | mF | 0.03     |
| Maximum Load Capacitance | Each Lead to Ground | mF | 0.03     |

### Current Command *(differential at rear panel)*

|                         |                      |       |    |
|-------------------------|----------------------|-------|----|
| Current Command Scaling |                      | A/V   | 32 |
| Input Range             | Full Scale           | V     | 10 |
| Common Mode Rejection   | DC to 1 kHz          | dB    | 80 |
| Input Impedance         | Each Input to Ground | kohms | 5  |

### Analog Monitor Output *(front panel BNC)*

|                      |                     |     |    |
|----------------------|---------------------|-----|----|
| Command Monitor Gain | Isolated DC Coupled | A/V | 22 |
| Output Current       | Isolated DC Coupled | A/V | 22 |
| Tuning               | Isolated DC Coupled | V/A | 1  |
| Output Voltage       | Isolated DC Coupled | V/V | 50 |

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|--|--|--------------|---------------|
| <b>Front Panel Controls/Indicators</b> |  |              |               |
| Display/Readout                        | 3 Axis Peak and RMS Output Current<br>Error Codes/Amplifier Status |              |               |
| Power On                               | Main Power Control   |              |               |
| Local Mode Control                     | Axis Enable/Reset  |              |               |
| Local Mode Fault Indicator             | Fault, Standby & Enable  |              |               |

**P/S Input Power Requirements**

|                        |                      |            |         |
|------------------------|----------------------|------------|---------|
| Line Voltage           | 3 Phase with Neutral | Vrms ph-ph | 208     |
| Line Current           | per Phase            | Arms       | 80      |
| Line Voltage Variation |                      | %          | +/-10   |
| Frequency              |                      | Hz         | 50 - 60 |

**Fault Conditions** *(local protection and reported via RS-232 Interface at rear panel)*

|                        |                               |       |     |
|------------------------|-------------------------------|-------|-----|
| Overcurrent            | Instantaneous                 | A     | 250 |
| RMS Long Term Current  | 300 Second Integration Window | A     | 135 |
| RMS Short Term Current | 0.3 Second Integration Window | A     | 150 |
| Bus Overvoltage        | Instantaneous                 | V     | 460 |
| Over Temperature       | Minimum                       | Deg C | 75  |
| Low AC Line Voltage    | re Nominal                    | %     | <12 |
| Loss of Power          | One or More Phases            |       |     |
| Output Lead Short      | To Ground or Each Other       |       |     |
| Loss of Synch Clock    | Full or Partial Loss          |       |     |

**Environmental Requirements**

|                     |                |       |         |
|---------------------|----------------|-------|---------|
| Ambient Temperature |                | Deg C | 15 - 30 |
| Ambient Humidity    | Non-Condensing | % RH  | 70      |
| Cooling Air         | Flow Rate      | CFM   | 900     |

|                    |                   |              |               |
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|--------------------|-------------------|--------------|---------------|

**Safety and Compliance Certification**

|                      |                              |
|----------------------|------------------------------|
| UL Standard 2601     | Medical and Dental Equipment |
| IEC 601-1/EN 60601-1 | Medical Electrical Equipment |

**Physical Specifications**

|            |                                    |    |           |
|------------|------------------------------------|----|-----------|
| Dimensions | Height x Width x Depth             | CM | 190x59x94 |
| Seismic    | Design Accommodates Seismic Anchor |    |           |
| Weight     | Total                              | KG | 525       |