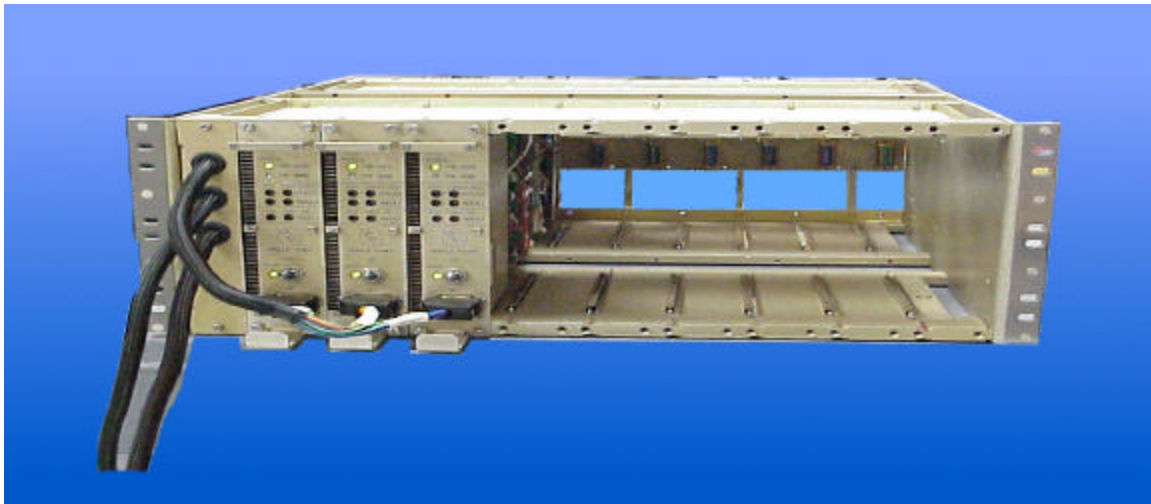


9 KW RUGGIDIZED BULK POWER SUPPLY



This system provides users with the ability to use COTS devices and have the overall system meet conducted Mil Spec EMI requirements without having to test each individual device to these requirements. Using 1KW Power Processor modules, mounted into a 4U 19" rack configuration, the 3-phase delta input power is converted into a 150VDC bus, which is then used to power electronic devices connected to the system. ACT's Power Processor modules are designed utilizing a unique power factor correction circuit, which accepts MIL-STD-1399 section 300A input power and provides the MIL-STD-461E EMI compliance by isolating the COTS devices from the input power. A fully configured system is comprised of nine separate 1KW module building blocks and an input EMI filter module.

Total System Characteristics:

Electrical	Environmental	Physical
Input Power: 115V, 3 phase, 60 Hz Delta, Floating Neutral per MIL-STD-1399 section 300A	Temperature: 0°C to +50° Altitude: 15,000 ft operating	4U Module Weight: 110 lbs
Output Voltages: 150 VDC Output Power: 1KW to 9KW	Vibration: MIL-STD-167 4 TO 20Hz Shock: 15G peak, 40ms ½ sine wave	Height: 6.969" Depth: 21.063" Width: 17.625"
EMI: MIL-STD-461E	Structure & Airborne Noise: MIL-STD-740-2 Type III	Modules: 9 Max

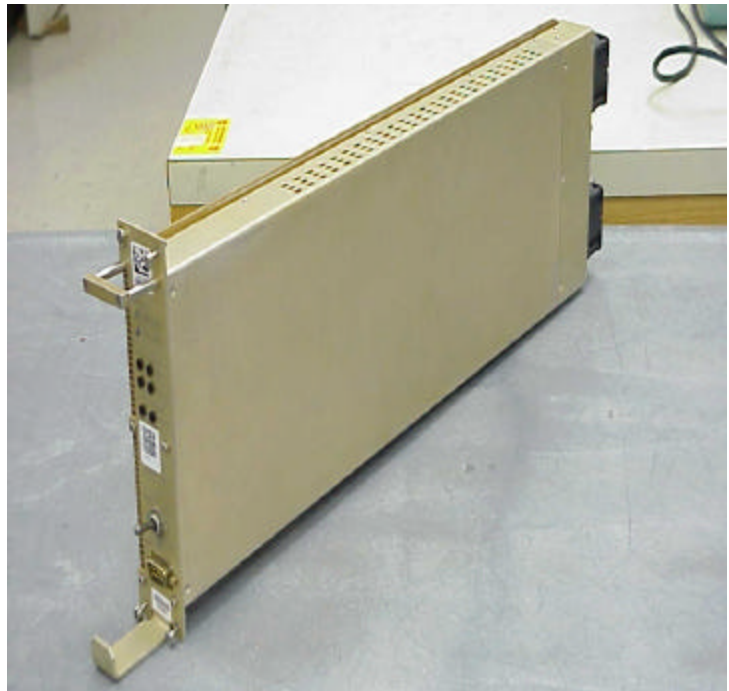
Power Processor Modules

Type	Output Voltage	Current	Power	Frequency
150 VDC Module	150 VDC +28 VDC	6.7 amps 0.6 amps	1 Kwatt 17 watts	DC
+12 VDC Module	+12 VDC	6.7 amps	80 watts	DC
Sq. Wave Inverter Module	150 Vpp	8 amps	1 Kwatt	60 Hz
Sine Wave Inverter Module	120 Vrms	3.3 Arms	400 watts	60 Hz

Optimum EMI performance is achieved when three, six or nine of the 1Kw power modules are selected. These configurations balance the power load across all three phases of the delta input power. The 150VDC power bus generated by these modules can then be used to power any COTS device that has a PFC input power supply. The inverter modules can be used to power devices that do not have an active PFC power supply. ACT has a growing number of custom modules that operate off the power bus. Depending on your unique requirements ACT can rapidly develop a new module for your specific application.

Other Characteristics:

- Power Factor > 0.99
- < 3% Total Harmonic Distortion
- Active Power Factor Correction
- Circuit Breaker Protected
- On/Off control
- Fully Isolated
- Hot Swappable
- Overvoltage Protected
- Automatic Load Sharing
- Temperature Monitoring
- N + 1 Redundancy
- Self Contained Fans
- 1KV Spike Test
- 70 msec Ride Through
- Power Good Signal
- Redundant Power Good Signal
- High Pot Tested to 1.2KVDC



If this power supply does not suit your specific needs ACT can custom design a solution for you? Since 1981 ACT has designed and produced over 1,000 custom designs. ACT specializes in designing and manufacturing high voltage and low voltage power supplies to meet today's most demanding environmental, performance, and miniaturization requirements.