



ATC Power Systems, Inc.

45 Depot St, Merrimack, NH 03054

The Power Density Experts

3U CHASSIS (5 SLOT)

7 Output, 150 Watt AC to DC Power Supply and Chassis

With Integral MIL-STD-461D EMI Filter



Highlights of the 3U Power Supply & Chassis:

- 150 Watts of Isolated +3.3V, +/- 5V, +/- 12V & 48V out Low Noise, Tightly Regulated Power.
- Complete solution with no NRE (non-recurring engineering).
- Complete Power System, just add up to five double height (9.187") x 160 mm deep 6U VME cards, backplane and rear panel I/O.
- MIL-STD-461, EMI Filtered.
- Power Supply has High Efficiency.
- Power Factor Corrected (PFC) Input for MIL-STD-1399, MIL-STD-461 (CE101) compliance.
- Self Cooled with Internal Fan.

Features

Fan Cooled: 0°C to +50°C (operation)
Inrush Current Limited
Overload/Short Circuit Protection
Overvoltage Protection
Over Temperature Protection
AC Power Fail & BIT
+5V STDBY Battery Back up

Environmental

Temperature..... 0°C to +50°C
Storage temperature..... -10°C to +70°C
Weight..... 40 lbs.
Size: Fits in Standard 19" Rack, 5.2" in height, 24" in depth, including all protrusions off rear panel.

Standards

MIL-STD-461D

Electrical Specifications

Input

Voltage 1..... 115VAC +/- 10%, 60 Hz
Voltage 2..... 220VAC +/- 10%, 50 Hz
Power Factor..... 0.99 (typ)

Output

Voltages.....+3.3, +/- 5, +/- 12, -48 VDC
Output Power..... 150 Watts
Over Voltage..... 120% (typ)

Isolation

Input/Output..... 1000 VDC
Output/Chassis..... 50 VDC
Input/Chassis..... 1000 VDC
Isolation Resistance..... 10 MegOhm Min



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Specification Table

	Min	Typ	Max	Units
INPUT				
Input Voltage Range	85	115/220	265	Vac
Input Frequency Range	47	N/A	63	Hz.
Power Factor at Full Load Out	0.98	0.99	1.0	N/A
Isolation: Input to Chassis	1000	N/A	N/A	Vdc

	Voltage (see Note *1) Tolerance (mV)	Max Ripple (see Note *2) Peak to Peak (mV)	Output Current Range (A)
OUTPUT VOLTAGES			
+ 3.3V	+ 150/-50	30	0 - 5
+ 5V	+ 250/-125	50	0 - 10
- 5V	+ 250/-125	50	0 - 2
+ 12V	+ 600/-300	50	0 - 2.5
- 12V	+ 600/-300	50	0 - 2.5
-48V	+/- 2(volts)	150	0 - 0.2
+ 5V STDBY	+ 250/-125	50	0 - 0.3

Note *1: Includes cumulative effects of Load Regulation, Line Regulation, and Temperature Co-efficient.

Note *2: DC – 20 MHz Bandwidth

MODEL NUMBER

3UAC-150-SERIES

**PLEASE CALL ATC POWER SYSTEMS TODAY TO
DISCUSS YOUR SPECIFIC POWER REQUIREMENTS!**