

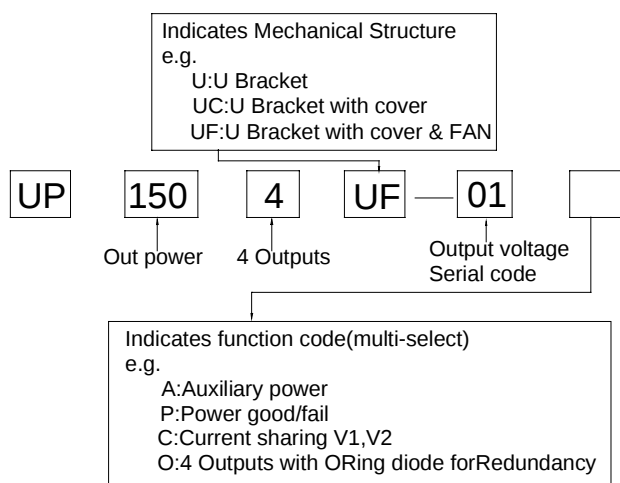
UP1504U-() () SERIES

150 Watts Quad+Aux Outputs Power Open Frame Switchers

- Active Power Factor Correction for IEC 1000-3-2 Compliance
- Remote Sense on V1 & V2
- Power Good/Power Fail(Optional)
- Single Wire Current Sharing on V1 & V2(Optional)
- Built-in OR-ing Diodes for N+1 Redundancy(Optional)
- With Metal Cover & FAN (Option)

preliminary

PART NUMBERING SYSTEM



SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range 85-264VAC
Input Frequency 47-63 Hz
Inrush Current 40A max.(Cold Start)

GENERAL SPECIFICATIONS

Hold-up Time 20mS typ.
Efficiency 70% typ.¹
Leakage Current 0.5mA max.
Short Circuit Protection Shutdown(V3,V4,V_{AUX})
Shutdown & Latch off(V1,V2)
Overvoltage Protection
..... Shutdown & Latch off(V1,V2,V3,V4)
Overload Protection 110% to 200%
(Shutdown V3,V4,V_{AUX}, Shutdown & Latch off V1,V2)
Total Output Power :
Convection Cooling 150W

LOGIC CONTROL

Power good/fail TTL logic signal goes high 50-150msec
after Vo on regulation, and goes low
at least 1ms before loss of regulation.
Remote On/Off.....TTL logic signal. This signal open or go
high, all output voltages except 5VAUX
shall down. This signal go low, the
power supply shall start up.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range 0°C to 70°C
Derating 50°C to 70°C 2.5%/°C
Temperature Coefficient ±0.04%/°C
Storage Temperature Range -40°C to +85°C
Humidity, Non-Condensing 0 to 95% RH
EMI Filter(on Board):
Conducted Meets FCC/CISPR 22 Class B
Specification

NOTES

1. Non-ORing diodes versions. Efficiency: 70% typ.
With-ORing diodes versions. Efficiency: 65% typ.



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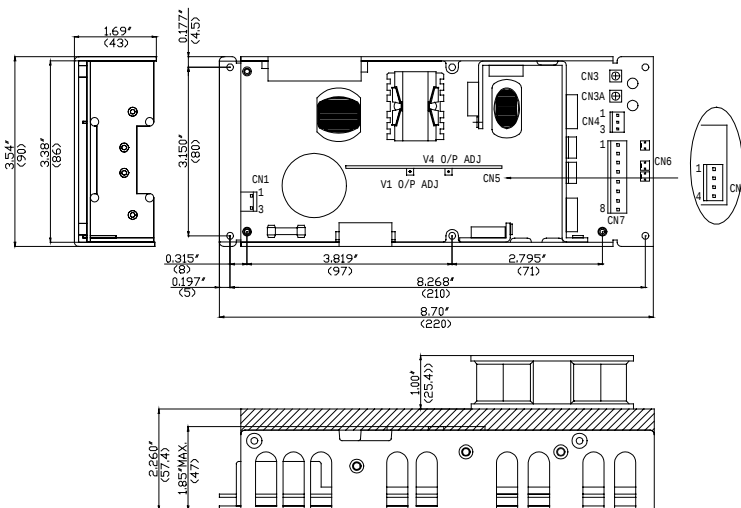
OUTPUT SPECIFICATIONS

Model Number	Output ¹ Voltage (Volts)	Output Current (Amps)		Peak ² (Amps)	Ripple ³ P-P (mV)	Regulation ⁴
		Min.	Rated			
UP1504U-01	V1 +5V	3	20	30	50	±3%
	V2 +3V3	0.5	10	20	50	±3%
	V3 +12V	0.0	0.7	1.5	120	±3%
	V4 +5-25V	0.0	1	1	120	±3%
	VAUX +5V	0.0	0.2	0.2	50	±3%
UP1504U-02	V1 +5V	3	15	30	50	±3%
	V2 +12V	0.5	6.5	10	50	±3%
	V3 +15V	0.0	0.6	1.5	120	±3%
	V4 +5-25V	0.0	1	1	120	±3%
	VAUX +5V	0.0	0.2	0.2	50	±3%
UP1504U-03	V1 +3V3	3	30	40	50	±3%
	V2 +5V	0.5	6	10	50	±3%
	V3 +12V	0.0	0.7	1.5	150	±3%
	V4 +5-25V	0.0	1	1	150	±3%
	VAUX +5V	0.0	0.2	0.2	50	±3%

NOTES:

1. The V1 output voltage is set to $\pm 1\%$, with all the outputs at rated load.
2. Peak output current lasting less than one minute with duty factor less than 5%. During peak loading total peak power must not exceed 165W, and the output voltage may exceed regulation limits.
3. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to the output cable. Peak to peak and RMS metering equipment shall have a 20 MHz response with probes and cables maintaining frequency response from 200 Hz to 100MHz bandwidth. Output ripple and spikes are measured directly at the output terminals of the power supply without the use of the probe ground clip.
4. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory setting.
5. V4 Isolation Output adjustable 5-25V, factory set at 5V.
6. Minimum loads are required. If the load is removed from all outputs, the supply must start up and operate.

PHYSICAL SPECIFICATIONS



Pin Assignments					
CN1	Pin1 Pin2 Pin3	Line Remove Neutral	CN5	Pin1 Pin2 Pin3 Pin4	PS-ON P.G.F. V1+Share V2+Share
CN3		Return			
CN3A		V1	CN7	Pin1 Pin2 Pin3 Pin4 Pin5 Pin6 Pin7 Pin8	V3 V3 Ret V4 V4 Ret 5V AUX V2 V2 V2
CN4	Pin1 Pin2 Pin3	V1+sense -sense V2+sense			

NOTES:

1. Specifications subject to change without notice.
2. All dimensions are in inches and (mm) tolerance is $\pm 0.02"$



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