



KDK ELECTRONICS, INC.
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Model KD350 & KD450 Power Supply Specification (*PRELIMINARY - Updated 02-16-04. See update summary on page 3 for details.*)

AC Input	85-264VAC	47-440Hz single phase
AC Input Current	7A rms (85VAC & 450W)	4.8A rms (115VAC & 450W)
Power Factor	0.99 (115VAC & 350W)	0.97 (230VAC & 350W)
Emissions	Compliant to EN55022 Class B, FCC Class B. Certification pending.	
Power Quality	Compliant to EN 61000-3-2 Class A. Certification pending.	
Immunity	Compliant to EN 55024 Class B Certification pending.	
Inrush Current	15A (cold start at 25°C)	
Input Protection	Internal AC fuse (dual option available).	
Earth Leakage Current	Less than 1.5mA at 60Hz, 230VAC. 300uA option available.	
Maximum Output Power	350 Model - 350W	450 Model - 450W
Efficiency	85% @ 350W (115VAC & 25°C)	82% @ 450W (230VAC & 25°C)
Hold-Up Time	25ms @ 350W (115VAC & 25°C)	15ms @ 450W (115VAC & 25°C)
Standby Power (+5VSB)	+5V @ 1A maximum. This output is present whenever AC input power is applied and is not affected by the shutdown signal.	
Ripple and Noise	+12V & -12V outputs < 120mV P-P (20MHz BW) +5VSB < 100mV P-P (20MHz BW) +5V, -5V & +3.3V outputs < 50mV P-P (20MHz BW)	
Overload Protection	Current foldback, self recovery.	
Power Fail (PF)	During nominal operation, TTL compatible output is low (<0.2V). Output switches high (>4.0V) upon loss of AC input power and switches low again at the end of the hold-up period.	
Shutdown (SD)	To turn on, apply TTL high or leave SD pin open. To turn off, apply TTL low or short SD pin to RT.	
Operating Temperature	100% rated power from 0°C to 50°C (baseplate temperature) . Derate linearly from full power at 50°C to half power at 70°C. -40°C option available.	
Storage Temperature	-65°C to 85°C ambient.	
Size (mm)	W x L x H: 133.4 x 236.2 x 31.8	
Safety	Compliant to ANSI/UL 60950-1, CSA 22.2-60950-1, EN 60950-1. Certification pending.	
Warranty	1 year	

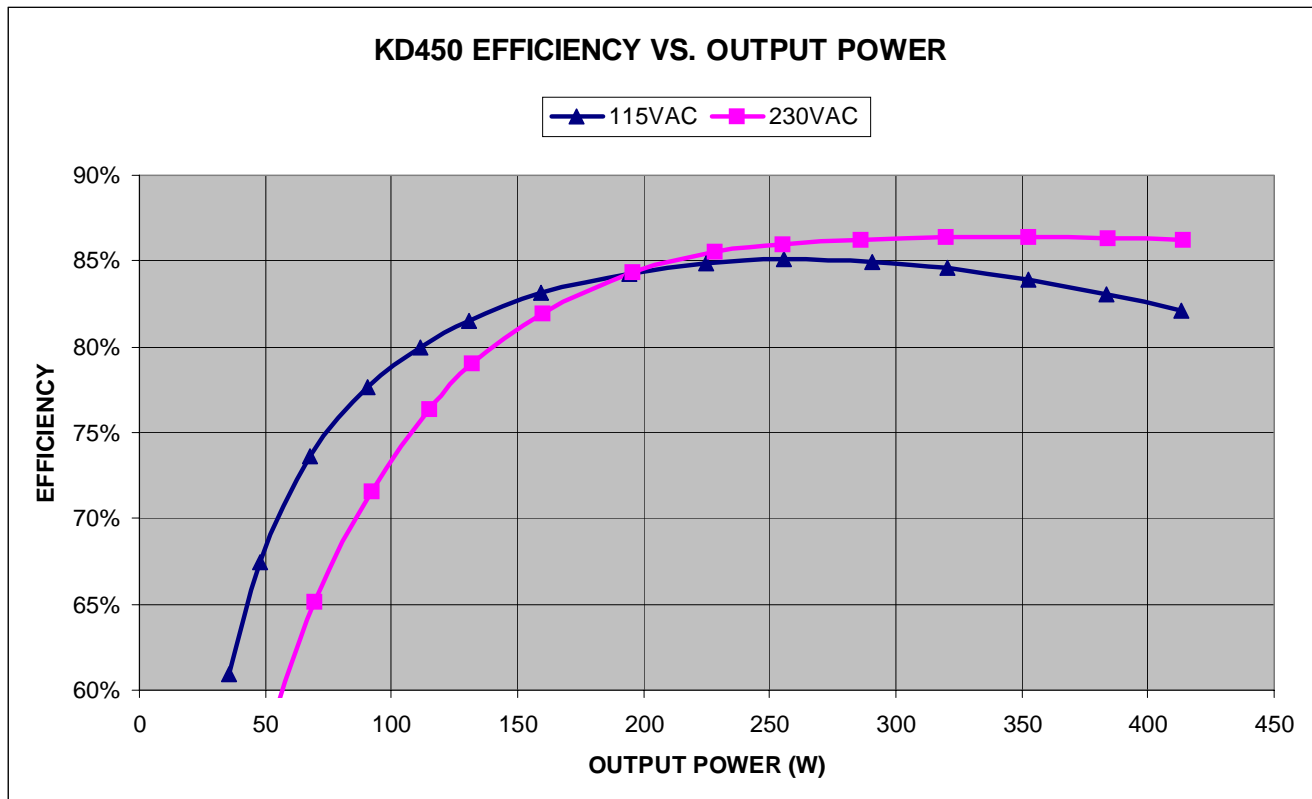


LOAD & CROSS REGULATION SPECIFICATIONS

Output	Range	Minimum Voltage (V)	Full Load Set Point (V)	Maximum Voltage (V)	Max Load (A) KD350	Max Load (A) KD450	Minimum Load (A)
+3.3V	± 5%	3.14	3.30	3.47	20.0	28.0	1.0
+5V	± 2%	4.90	5.00	5.15	25.0	32.0	1.0
+12V	± 5%	11.16	12.00	12.84	10.0	15.0	1.0
-5V	± 5%	-4.50	-5.00	-5.50	0.5	0.5	0.0
-12V	± 5%	-11.16	-12.00	-12.84	1.0	1.0	0.0
+5V STANDBY	± 5%	4.75	5.00	5.25	1.0	1.0	0.0

Notes:

1. The +12V load may be adjusted to a higher output level (at the expense of the other output loads) as long as the maximum power rating is not exceeded.
2. Outputs other than those tabulated above are available upon request.
3. When minimum load is not maintained, maximum load regulation range is ±10%.
4. Outputs may be customized to user specified load requirements for improved load and cross regulation.

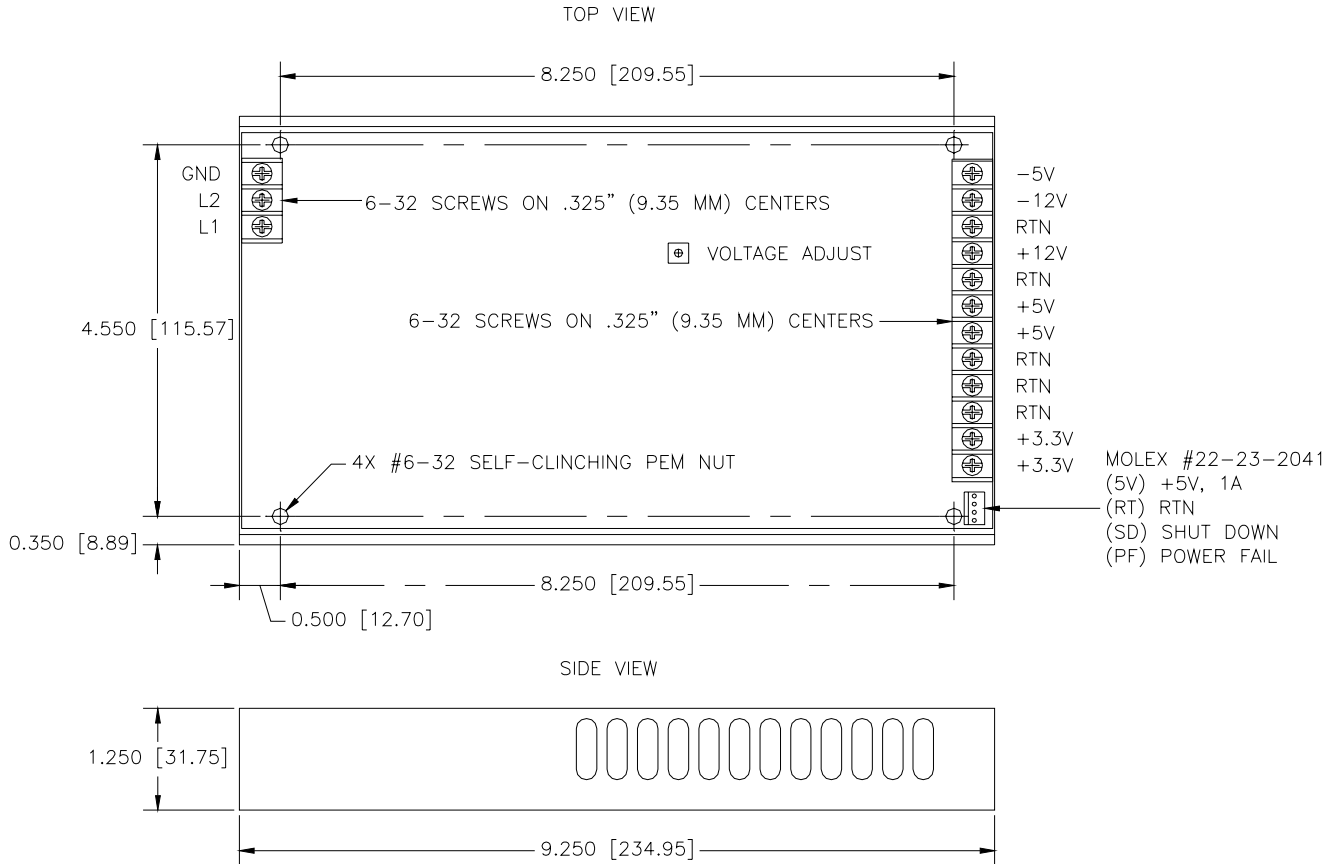




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KD450 MECHANICAL SPECIFICATIONS



Update Summary:

- 06-25-2003: KD350 and KD450 power supply upgraded for medical applications.
- 02-16-2004: Safety and MTBF information added.

Revised 02-16-2004.

This power supply is manufactured under United States patent right of KDK Electronics, Inc.