

# POWTEC

SA320-3525-P4

## 320W Platform

Total Power	320 Watts
Input voltage	90 - 135 VAC 180 - 265 VAC
# of Outputs	Six



Product may vary slightly from photo

### SPECIAL FEATURES

- CE Mark
- 3.3 V output
- +5 VSB Standby supply (SELV)
- ATX 20-pin connector
- Intel ATX Version 2.01 & 2.03
- Pentium 4 ATX +12 V & Aux connector
- High efficiency
- High MTBF
- Built-in EMI filter (CISPR 22 Class B)
- IEC801-2,-4,-5
- Power good signal

### ENVIRONMENTAL

Operating Temperature:  
+10°C to +50°C ambient

Storage Temperature: -40°C to +70°C

Cooling: Self-contained fan

MTBF: >100,000 hours at 75% load and  
25°C ambient conditions

### SAFETY

UL 1950  
CSA 22.2 No.234  
IEC 950  
EN 60950/ with Nordic deviation  
NEMKO  
CB report  
CE mark (LVD)  
TUV  
NRTL/C

### ELECTRICAL SPECIFICATIONS

#### INPUT

Input range	90-135 / 180-265 VAC Switch select
Frequency	47-63 Hz
Input current	9 A @ 115 VAC; 4.5 A @ 230 VAC
Efficiency	>65% @ full load, nominal line
EMI/RFI	FCC Part 15, Subpart B Class B and CISPR 22

#### OUTPUT

Maximum power	320 W
Hold-up time	17 ms at full load @ 115 VAC 20 ms at full load @ 230 VAC
Transient response	All outputs shall stay within regulation for 20% load change from 10 Hz - 1 KHz and 50% duty cycle condition
Overvoltage protection	+3.3 V - trip point <4.6 V +5 V - trip point <6.5 V +12 V - trip point <15.6 V AC or PS-On to reset
Short circuit protection	Latch off on main outputs if one of the mains short circuit to common (R<0.03 Ohm), but +5 VSB shall remain normal. Recycle AC or PS-On to reset
Leakage current	<3.5 mA @ 250 VAC to GND
Power good signal	TTL compatibility. Power good sign goes high after turn-on 100-500 ms. Signal goes low at least 1 ms before loss of regulation

#### REMOTE ON/OFF

PS-On	Active low, to turn main outputs on. TTL compatibility.
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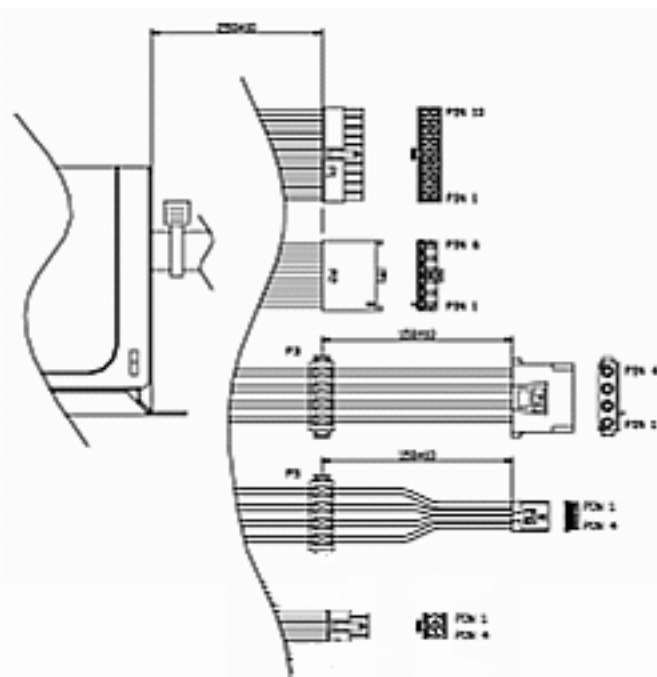
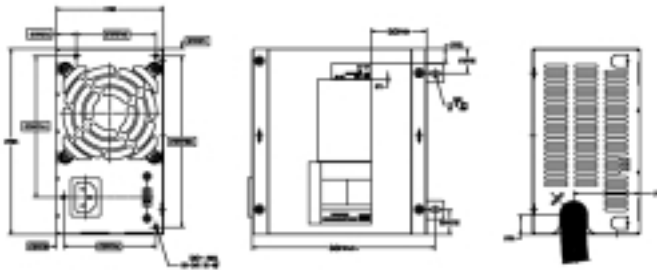


## SPECIFICATIONS SA320-3525-P4

Output	Voltage	Regulation	Minimum Load <sup>3</sup>	Maximum Load	Peak Load	Ripple P/P(PARD) <sup>1</sup>
V1 <sup>2</sup>	+3.3 V	+/-5%	0.3 A	26.0 A	—	50 mV
V2 <sup>2</sup>	+5 V	+5 / -4%	1.0 A	32.0 A	—	50 mV
V3	+12 V	+/-5%	0.2 A	13.5 A	15 A <sup>4</sup>	120 mV
V4	-12 V	+/-10%	0 A	0.8 A	—	120 mV
V5	-5 V	+/-10%	0 A	0.5 A	—	100 mV
V6	+5 VSB	+/-10%	0.2 A	2 A	—	50 mV

1. Peak-to-peak with 20 MHz bandwidth and 10 uF in parallel with a 0.1 uF capacitor.
2. Total combined power on +3.3 V and +5 V rails is 210 W max.
3. Minimum load requirement must comply to "Load Range" in the Product Specification - contact factory.
4. Peak current lasting <15 sec.

## DRAWINGS



## PIN ASSIGNMENTS

CONNECTOR	PIN	OUTPUT	MATING CONNECTOR
PS1	Pin 1	+3.3V	Molex 39-01-2200 or Equivalent
	Pin 2	+3.3V	
	Pin 3	COM	
	Pin 4	+5V	
	Pin 5	COM	
	Pin 6	5V	
	Pin 7	COM	
	Pin 8	POK	
	Pin 9	+5VSB	
	Pin 10	+12V	
	Pin 11	+3.3V & RS	
	Pin 12	-12V	
	Pin 13	COM	
	Pin 14	PS-ON	
	Pin 15	COM	
	Pin 16	COM	
	Pin 17	COM	
	Pin 18	-5V	
	Pin 19	+5V	
	Pin 20	+5V	
PS2	Pin 1	COM	Alex 8612-06 or Equivalent
	Pin 2	COM	
	Pin 3	COM	
	Pin 4	+3.3V	
	Pin 5	+3.3V	
	Pin 6	+5V	
P4, P5, P6 P8, P9, P10	Pin 1	+12V	Alex 9090-4V or AMP1480424-0 or Equivalent
	Pin 2	COM	
	Pin 3	COM	
	Pin 4	+5V	
P7, P11	Pin 1	+5V	AMP171822-4 or Equivalent
	Pin 2	COM	
	Pin 3	COM	
	Pin 4	+12V	
PS3	Pin 1	COM	Molex 39-01-2040 or Equivalent
	Pin 2	COM	
	Pin 3	+12V	
	Pin 4	+12V	

## NOTES

1. Specifications subject to change without notice.
2. All dimensions in millimeters
3. Warranty: 1 year
4. Weight: 2.00 kg

