



Electronic Solutions Associates
 803 Stevens Avenue
 Oldsmar, FL 34677
 561.226.1309
 www.esaacsolutions.com

300W ATX with -5Vdc Power Supply Specification Sheet Model PS37



This specification defines the electrical performance and characteristics of the ESA Model PS37. The PS37 was designed with compliance to the ATX12V Ver. 2.03 specification and with Full Range Active PFC and a -5Vdc output.

Features

- 5Vdc Output
- Remote ON / OFF Control
- The unit accepts a logic open collector level which will disable / enable all output voltages (excludes +5V Standby), when logic level is Low, output voltages are enabled, when logic level is high, output voltages are disabled.
- Active Power Factor Correction (PFC), Full Range: Meets IEC-1000-3-2 Class D
- 12V Max. Current : 22 A
- Noise & Thermal Control (Silent & Reliable)
- Temperature Range: Operating -10°C ~ 50°C
- Humidity: Operating: 20%-95%, Non-Operating: 10%-95%, 85% is normal condition and 95% is with special coating process
- Cooling: One 80mm DC Fan
- EMI Noise Filter: FCC Class B, CISPR22 Class B
- Safety: UL 1950, CSA 22.2 NO/ 950, TUV IEC 950
- Serial ATA optional
- 3.3V / 5V Remote Sensing.
- Cooling: One 80mm Ball Bearing DC Fan.
- Dimension: 140 (D) x150 (W) x 86 (H) mm (PS/2).
- Advanced Thermal & Acoustic Control Features.

Specifications

AC Input

Vin Range (Vac Full Range):	Minimum	Maximum
	90	240
Input Frequency:	47 ~ 63 Hz	
Input Current:	6 A (RMS) for 115VAC, 3 A (RMS) for 230VAC	
Inrush Current:	65A Max. For 115 VAC, 125A Max. For 230 VAC.	

DC Output (Max)

Model:	PS37					
Output (V Nom):	5	3.3	12	-5	-12	5SB
Current (A Max):	35	25	22	0.8	1.0	2.0
Power (Watts Max):	300					

Regulation

Load Regulation:	+/-5% Typical,					
Voltage Output (V):	+5	+3.3	+12	-5	-12	+5SB
Minimum	4.75	3.14	11.16	-4.75	-11.40	+4.75
Nominal	5.00	3.30	12.00	-5.00	-12.00	+5.00
Maximum	5.25	3.46	12.84	-5.25	-12.60	+5.25
P-P Noise (Typ mV):	50	50	120	150	150	50
Line Regulation:	± 1% Typical					
Total Efficiency (Typical):	68% Typical					

Safety (General)

Overvoltage Protection For (V):	+5	+3.3	+12
Threshold Voltage (V):	5.7V ~ 6.5V	3.9 ~ 4.3V	13.6 ~ 15V
Overload Protection:	130 +/- 20%		
Short Circuit Protection:	+5V, -5V, +12V, -12V, +3.3V		
Dielectric Withstand:	Input / Output 1500 VAC for 1 Second		
Input to Frame Ground:	1500 VAC for 1 Second		
Power Good Signal:	ON Delay 100 ms TO 500 ms, OFF Delay 1 ms		
Holdup Time:	16 ms Minimum at Full Load & Normal Input Voltage		



Electronic Solutions Associates
803 Stevens Avenue
Oldsmar, FL 34677
561.226.1309
www.esaacsolutions.com

300W ATX with -5Vdc Power Supply Specification Sheet Model PS37



Regulatory Standards and Requirements

Safety:	UL 1950, CSA 22.2 NO/ 950, TUV IEC 950
EMC:	CE, FCC Class B, CISPR22 Class B
MTBF:	> 200,000 hrs. @ 25° C without Fan, >100,000 hrs. @ 25° C with Fan.

Mechanical

Dimensions:	5.9"L x 5.5"W x 3.4"H (150mmL x 140mmW x 86MMH)
Connectors:	ATX 2.03, ATX12V(P4), EPS12V, WTX, AMD-GES

Technical Revisions

Specifications are subject to change without notice.