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## DC-DC ATX Mini Power Supply Short Specification Sheet Model ESA-DA



This specification defines the electrical performance and characteristics of ESA Model ESA-DA. The ESA-DA is a 12-24Vdc variable input ATX power supply with a sub-1U chassis.

### DC INPUT

	Minimum	Rated	Maximum
Vin Range (V):	9	12	18

### DC Output (Max)

Model:	ESA-DA120					ESA-DA160					ESA-DA200				
Output (V Nom):	5	3.3	12	-12	5SB	5	3.3	12	-12	5SB	5	3.3	12	-12	5SB
Current (A Max):	12	12	9	0.5	2	15	14	12	0.5	2	20	14	16	0.5	2
Power (Watts Max):	76					76					100				
	120					160					200				

### Regulation

Load Regulation					
Voltage Output (V):	+5	+3.3	+12	-12	+5SB
Minimum	4.75	3.14	11.40	-10.80	+4.75
Nominal	5.00	3.30	12.00	-12.00	+5.00
Maximum	5.25	3.47	12.60	-13.20	+5.25
Line Regulation:	±1% Typical				
Total Efficiency (Typical):	≥70% (Full Load @ 12Vdc input & 25°C)				

### Safety (General)

Overload & Voltage Protection	Yes
Short Circuit Protection	Yes
Power Good Signal Delay:	Power On 100 ~ 500ms; Off > 1ms

### Regulatory Standards and Requirements

Safety	
USA	UL-60950-1
Europe	CE: (LVD) EN60950
Canada	C-UL 60950
EMC:	FCC Part 15 Class B (DOC)
MTBF:	> 100,000 hrs. Typical @ 25° C

### Environmental

OP/Storage Temperature:	0°C ~ 45°C / -40°C ~ 50°C
Humidity:	Non-condensing - Operating: 85%, Storage: 95%
Cooling:	40x40 (mm) fan.

### Mechanical

Dimensions:	W81.5 x H40.5 x L150 mm, W3.2" x H1.65" x L6"
DC Input Connector:	At front of ESA-DAXX: 40A/100V screws with washers.