



AC/DC Power Supply  
3 Outputs  
300W



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All specifications are at nominal input, full load, 25°C and C-grade models, unless otherwise noted.

Input Specifications

Nominal Input Voltage	115/230VAC User Selectable <sup>1</sup> 115-230VAC Universal <sup>2</sup>
Input Voltage Range	95-132VAC or 180-264VAC (Selectable) or 95-264VAC (Universal)
Input Frequency Range <sup>3</sup>	47-500Hz
Input Current	< 6A RMS
Inrush Current (264Vac peak line, cold start)	30 A
Input Fuse	No internal fuse.
Power Factor (Typical)	0.62

Output Specifications (For each of 3 available outputs)

Output Voltage (Factory configurable)	2 to 60 V
Output Voltage Setpoint	<3%
Output Regulation	1%
Maximum Output Power <sup>4</sup>	100 W (Selectable Line Range) 50 W (Universal Line Range)
Short Circuit Current Limit (Max)	125%
Output Ripple and Noise 20%-100% load 20MHz BW	The higher of 1.5% or 100mV
Over Voltage Protection	None

<sup>1</sup> Via separate pins:

L1/Neutral and L2 (115VAC) for 110V line  
L1/Neutral and L2 (230V) for 220V line

<sup>2</sup> Via input pins

L1/Neutral and L2 (230V)

<sup>3</sup> The EC303AC is designed for building-in. If the end product operates at input frequencies higher than 63Hz the EC303AC will exceed the UL 60950 Leakage Current (Touch Current) limit of 3.5mA.

<sup>4</sup> With adequate air flow, see thermal performance tables

<b>Mechanical Specifications</b>	
Dimensions	6.7" x 3.9" x 1.6" (3U x 8HP) Per IEC 297-3
Cooling	Natural Convection or System Forced Air
Operating Temperature Range	-20°C to 70°C
Storage Temperature Range	-40°C to 70°C
Maximum Module Baseplate Temperature	100°C
Card Rack Mounting	EuroCard Cage With Plastic Card Guides

<b>Compliance</b>	
Safety Agency Approvals	EN60950 (cTUVus)
Input Conducted EMI	External filter required to meet EN55022 Class A

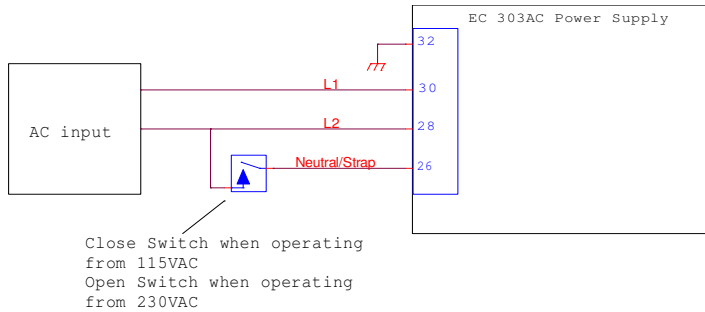
<b>Maximum Output Power vs. Air Flow and Air Temperature<sup>5</sup></b>									
Po (W)	20°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	70°C
<b>Natural</b>	178	154	142	130	119	107	95	83	59
<b>100 LFM</b>	221	191	176	162	147	132	118	103	74
<b>200 LFM</b>	273	237	219	200	182	164	146	128	91
<b>300 LFM</b>	300	274	253	231	210	189	168	147	105
<b>400 LFM</b>	300	300	293	269	244	220	195	171	122
<b>500 LFM</b>	300	300	300	300	284	255	227	199	142

<sup>5</sup> Maximum power indicated here is a design guideline only. User must assure sufficient cooling to keep module baseplate temperature within specification.

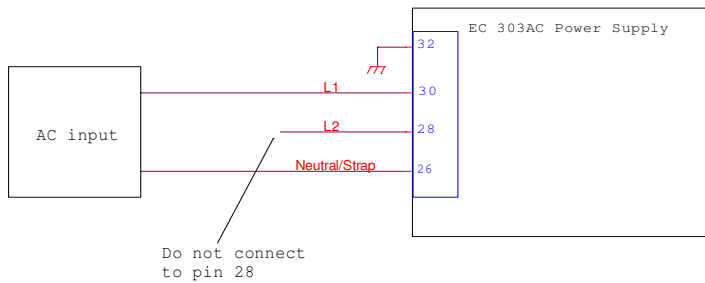
**Connections (per DIN 41612)**

d	Signal Description	Signal Description	z
		+V1	4
6	+V1		
		V1 Sense +	8
10	V1 Sense -		
		-V1	12
14	-V1		
		+V2	16
18	-V2		
		+V3	20
22	-V3		
		Not Connected	24
26	Neutral/Strap		
		L2	28
30	L1		
		Safety Ground	32

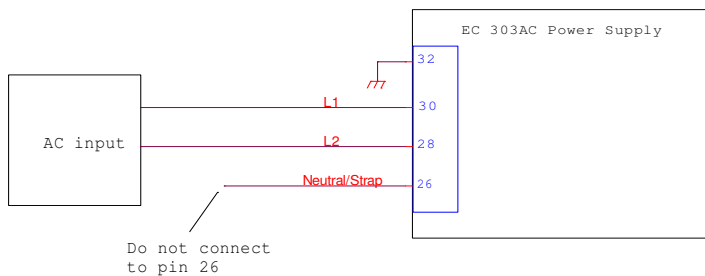
**Typical AC Input Connection Scheme**



When operating from either 115VAC or 230VAC  
 USER SELECTABLE



When operating only from 115VAC



When operating only from 230VAC Source  
 OR  
 115/230VAC when using a universal line range configuration

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