

VLT110 Series



110W single and quad output AC/DC Power Supplies

- 110W fan cooled rating
- 3x5x1 inch industry standard package
- Patented resonant topology
- Ultra high efficiency >85%
- Low conducted and radiated noise
- EN61000-3-2 class A harmonics

Unless stated all specifications are typical and rated at full load, nominal input voltage, convection cooling and 25°C.

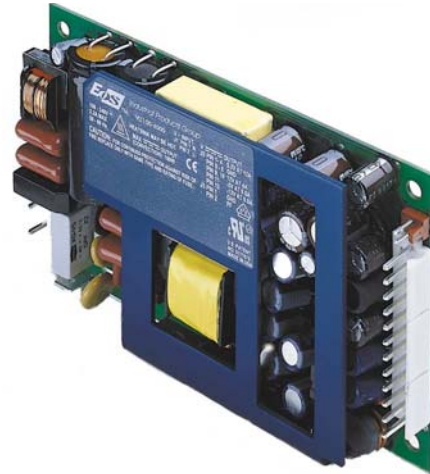
Model Number	Output	Nom Vout	Set Point	Current ¹ No Fan	Current ¹ 150LFM	Min. Load
VLT110-1300 ²	V1	5V	5.1V	10.0A	15.0A	1.0A
VLT110-1301 ²	V1	12V	12V	6.25A	9.2A	0.2A
VLT110-1302 ²	V1	15V	15V	5.0A	7.3A	0.2A
VLT110-1303 ²	V1	24V	24V	3.1A	4.6A	0.1A
VLT110-1304 ²	V1	48V	48V	1.6A	2.3A	0.1A
VLT110-4300	V1	5V	5.1V	10.0A	15.0A	1.0A
	V2	12V	12.4V	3.0A	4.1A	0.1A
	V3	-5V	-5.1V	0.8A	1.1A	0.0A
	V4	-12V	-12.5V	0.8A	1.1A	0.0A
VLT110-4301	V1	5V	5.1V	10.0A	15.0A	1.0A
	V2	24V	23.5V	2.0A	2.75A	0.1A
	V3	12V	12.5V	0.8A	1.1A	0.0A
	V4	-12V	-12.5V	0.8A	1.1A	0.0A
VLT110-4302	V1	5V	5.1V	10.0A	15.0A	1.0A
	V2	15V	16.0V	3.0A	4.1A	0.1A
	V3	-5V	-5.1V	0.8A	1.1A	0.0A
	V4	-15V	-16.0V	0.8A	1.1A	0.0A
VLT110-4303	V1	5V	5.1V	10.0A	15.0A	1.0A
	V2	12V	12.4V	3.0A	4.1A	0.1A
	V3	24V	25.0V	0.8A	1.1A	0.0A
	V4	-12V	-12.5V	0.8A	1.1A	0.0A
VLT110-4304	V1	3.3V	3.3V	10.0A	15.0A	1.0A
	V2	5V	5.1V	3.0A	4.1A	0.1A
	V3	12V	12.5V	0.8A	1.1A	0.0A
	V4	-12V	-12.5V	0.8A	1.1A	0.0A
VLT80CK	Metal cover kit accessory					

INPUT SPECIFICATIONS

AC Input	Universal	90 to 264V
Efficiency		85%
Input Frequency		47–63 Hz
Input Current	Full load at low line	2.6Arms, max
Inrush Current	High line, cold start	35A, max

Notes

1. Maximum current per output channel. Do not exceed total output power rating
2. Power fail and power good signal on quad output models only



OUTPUT SPECIFICATIONS

Hold-Up Time	115V/230V	15ms/18ms
Voltage Set Point Accuracy	V1 V2, V4 V3	+1% ±5% +7%, -5%
Line Regulation	Low line to high line	0.3%
Load Regulation 50% to full load	V1 V2, V4 V3	±3% ±5% +7%, -5%
Transient Response 50% to full load	Voltage deviation Recovery time	10%, max <1ms
OVP	V1 only 5V 3.3V	6.4V, ±0.4V 4.1V, ±0.2V
Overload Protection	Primary limited	110 to 160W
Short Circuit Protection	Auto Recovery <6s	Short Term
Ripple and Noise		1%
Power Fail Signal ²	TTL active low	1ms warning
Power Good Signal ²	Delay after V1 high	100ms, min
Output Rise Time		<40ms

TOTAL OUTPUT POWER RATING

Cooling	Convection	Fan Vin ≥100V	Fan Vin <100V
Single output	75W	110W	100W
Quad output	75W	110W	100W
VLT110-4304	70W	98W	98W

EMC AND SAFETY SPECIFICATIONS

CE Mark	Complies with the LVD
EMC	EN55022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1, EN60601-1-2
Harmonic Correction	EN61000-3-2 Class A
Agency Approvals	VDE, UL, c-UL
Safety Standards	IEC950, EN60950, UL1950, CSA C22.2 No 950 Class 1 SELV
Safety File numbers	VDE: 18934-3336 UL: E150565

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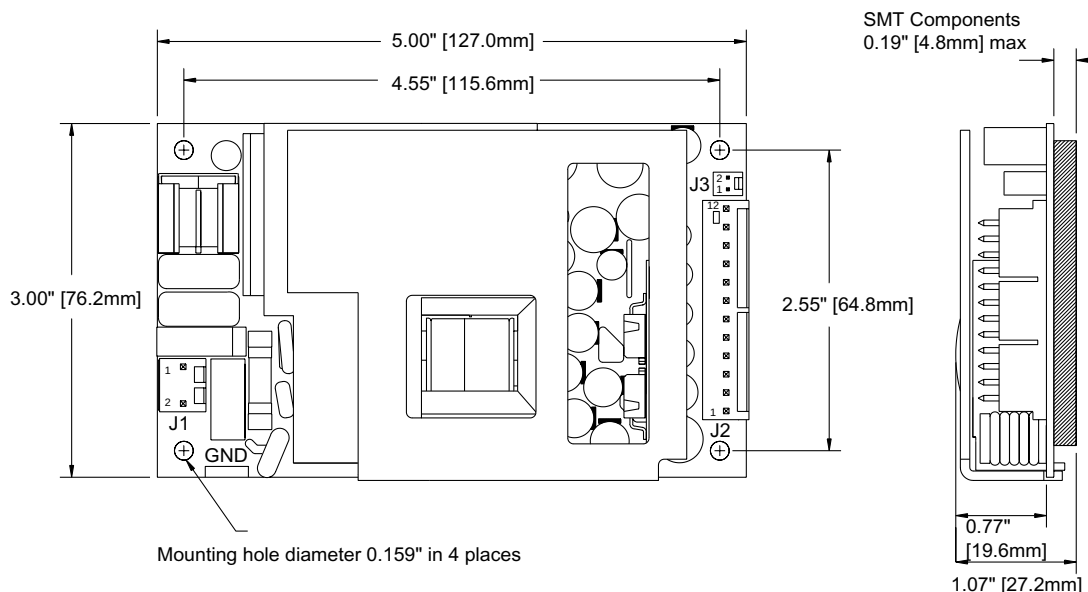
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MECHANICAL SPECIFICATIONS

AC Input Connector J1	Molex 3 position, 0.156 center header 26-60-4030 or equivalent
Ground Connector	Spade connector, 0.25"
DC Output Connector J2	Molex 12 position, 0.156 center header 26-60-4120 or equivalent
Output Connector J3	Molex 2 position, 0.100 center header 22-23-2021 or equivalent
Size	3x5x1.07" (76.2x126.9x27.2mm)
Weight	9oz (250g)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	No derating Linear derate to 50%	0 to 50°C 51 to 70°C
Storage Temperature		-40 to 85°C
Cooling	Convection/Fan	80W/110W
Relative Humidity	Non condensing	95%, max
MTBF	MIL-HDBK-217F	>200,000 hrs



INPUT CONNECTOR J1

Pin 1	AC Neutral
Pin 2	AC Line

Input Spade Connector

GND	AC Ground
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OUTPUT CONNECTOR J3

Pin 1	Common
Pin 2	Power Fail/Good

OUTPUT CONNECTOR J2

	Single Output	Quad Output
Pins 1,2,3,4	V1	V1
Pins 5,6,7,8	DC Return	DC Return
Pins 9,10	NC	V2
Pin 11	NC	V3
Pin 12	NC	V4