

40 Watt Industrial (VLT)



Features

- 40 W convection-cooled rating
- Small 4 x 2 x 1.07 inches form factor
- High efficiency > 82%
- Single to triple outputs
- Low conducted and radiated noise
- Patented resonant topology
- Cover kit accessory available

Electrical Specifications

AC Input	90–132 V & 180–264 V, Auto Ranging	
Input Frequency	47–63 Hz	
Input Current	120 VAC: 0.85 A max.	230 VAC: 0.45 A max.
Inrush Current	120 VAC: 40 A max.	230 VAC: 75 A max.
Leakage Current	120 VAC: < 500 μ A	230 VAC: < 1000 μ A
Efficiency ¹	120 VAC: 80% typical	230 VAC: 80% typical
Hold-up Time	120 VAC: 6 ms	230 VAC: 6 ms
Output Power	40 W	
Line Regulation	+/-0.3%	
Load Regulation	V1: +/-0.5%; V2 & V3: +/-5%	
Transient Response	< 10%, 50% to 100% load change, 50/60 Hz, 50% duty cycle, 0.1 A/ μ s, recovery time < 5 ms	
Rise Time	< 100 ms	
Set Point Tolerance	V1: +/-3%; V2 & V3: +/-5%	
Over Current Protection	130% typical above rating	
Over Voltage Protection (For V1 & triple output model only)	3.95 V +/-0.25 V for 3.3 V; 6.2 V +/-0.4 V for 5 V	
Short Circuit Protection	Short term, autorecovery	
Switching Frequency	Boost converter: 105 kHz typical Resonant converter: 45 kHz typical	
Operating Temperature	0 to 70°C, refer derating curve	
Storage Temperature	-40 to +70°C	
Relative Humidity	95% Rh, noncondensing	
Altitude	Operating: 10,000 ft.; Nonoperating: 40,000 ft.	
MTBF	0.91m Hours, Telcordia SR332 Issue-3	
Isolation Voltage	Min. 4242 VDC between input to output	
Cooling	Convection	

Model Number	Voltage	Max. Load ²	Min. Load	Ripple ³
LFVLT40-1200	V1=5.1 V	8.0 A	0.2 A	1%
LFVLT40-1201	V1=12 V	3.5 A	0.1 A	1%
LFVLT40-1202	V1=15 V	2.7 A	0.1 A	1%
LFVLT40-1203	V1=24 V	1.7 A	0.05 A	1%
LFVLT40-1204	V1=48 V	0.83 A	0.05 A	1%
LFVLT40-3200	V1=5.2 V, V2=12.5 V, V3=-12.8 V	V1=6.0 A, V2=2.0 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFVLT40-3201	V1=5.2 V, V2=23.8 V, V3=-12.8 V	V1=6.0 A, V2=1.0 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFVLT40-3202	V1=5.2 V, V2=14.6 V, V3=-14.8 V	V1=6.0 A, V2=1.5 A, V3=0.5 A	V1=0.5 A, V2=0.1 A, V3=0.0 A	1%
LFVLT40-3203	V1=3.3 V, V2=5.2 V, V3=-12.8 V	V1=6.0 A, V2=3.0 A, V3=0.5 A	V1=1.0 A, V2=0.1 A, V3=0.0 A	V1=1.5%, V2, V3=1%
LFVLT60-CK metal cover kit accessory				

Connectors		
J1	Pin 1	AC NEUTRAL
	Pin 2	AC LINE
Spade Connector		EARTH
J2	Pin 1	V1
	Pin 2	V1
	Pin 3	RTN
	Pin 4	RTN
	Pin 5	V3
	Pin 6	V2

Notes

1. For VLT40-3203 efficiency is 75% typical.
2. Maximum current per output channel. Do not exceed total output power rating.
3. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Electrolytic capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
4. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
5. Derate output power linearly to 80% from 90 VAC to 80 VAC input.



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Mechanical Specifications

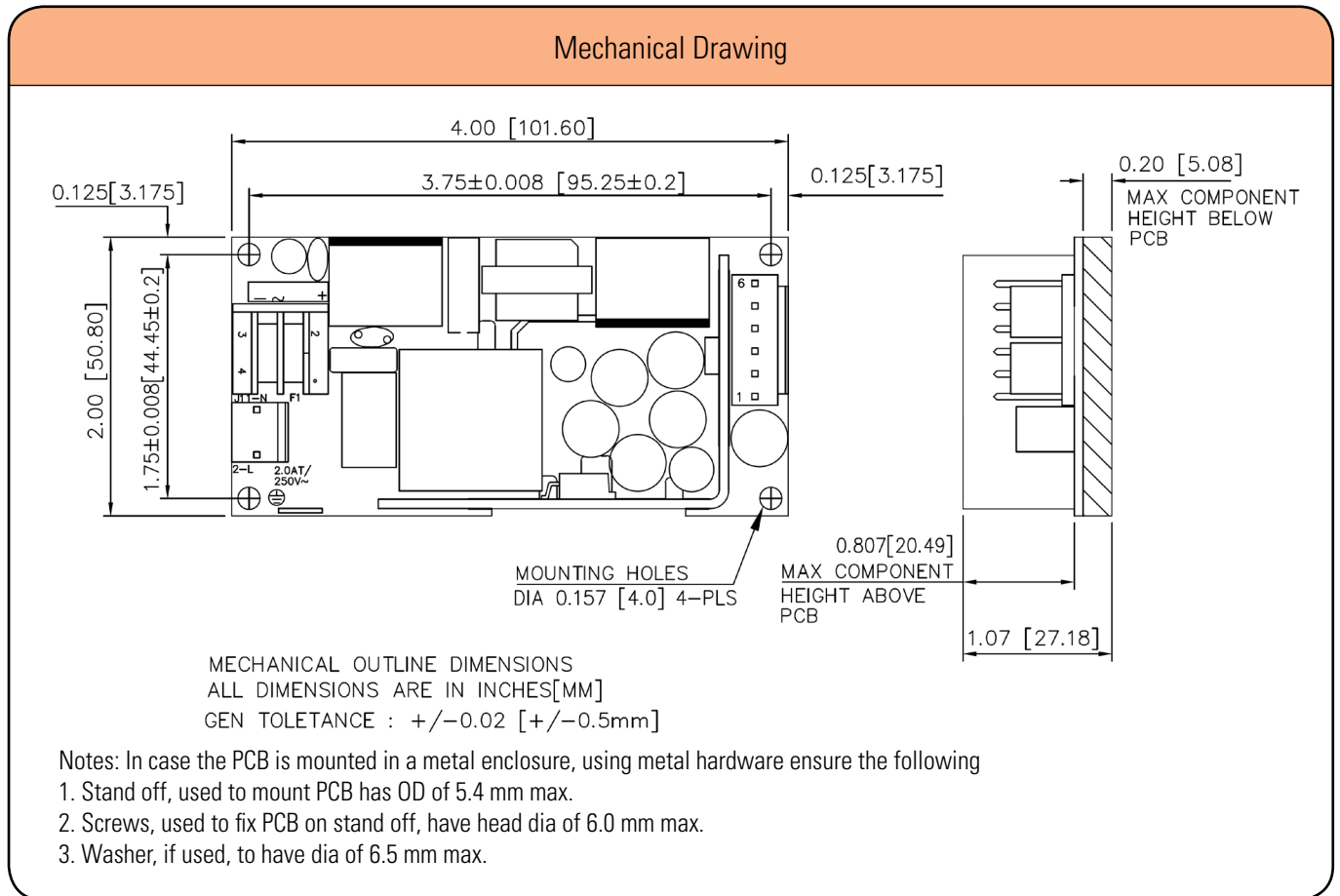
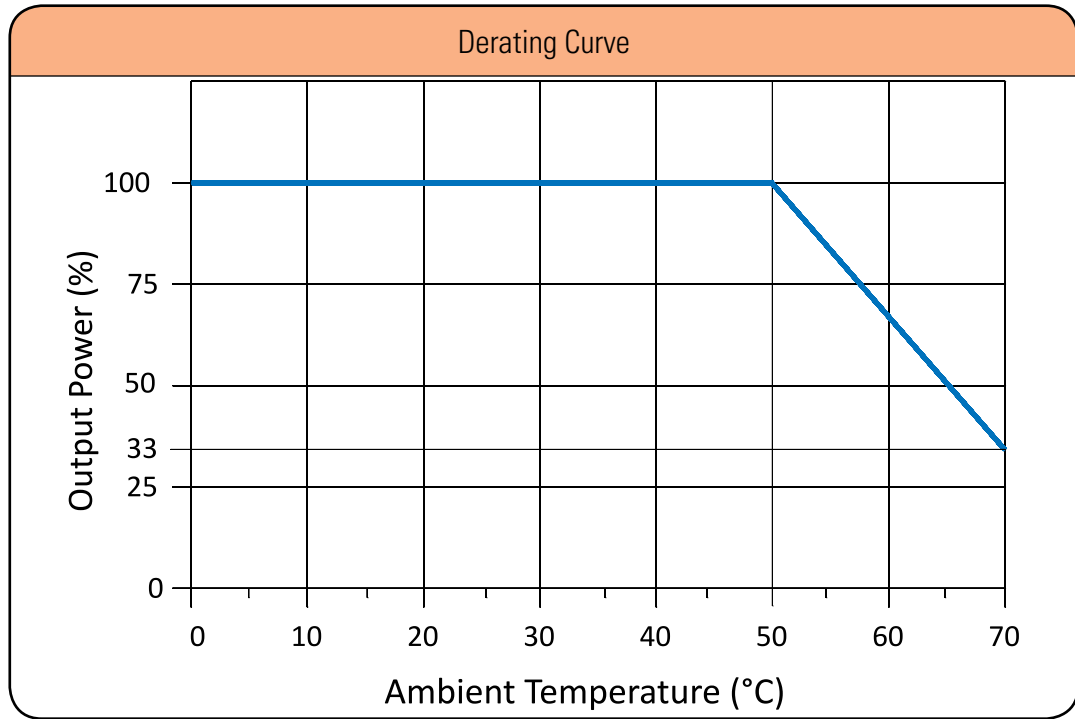
AC Input Connector (J1)	Molex: 26-60-4030 or equivalent Mating: 09-50-3031; Pins: 08-50-0106
EARTH	Molex: 19705-4301 Mating: 190030001
DC Output Connector (J2)	Tyco: 640445-6 or equivalent Mating: 647402-6; Pins: 3-647409-1
Dimensions	4.0 x 2.0 x 1.07 inches (101.6 x 50.8 x 27.18 mm)
Weight	150 g

EMC

CE Mark	Complies with LVD Directive
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15-B
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	EN55022-B, CISPR22-B, FCC PART15-B To be controlled in end system
Surge Susceptibility	EN61000-4-5, Level-3

Safety

Safety Standard(s)	EN 60950-1:2006;A11;A1;A12;A2 IEC 60950-1(ed.2);am1;am2 UL 60950-1, 2nd Edition, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition
Approval Agency	Nemko, UL, C-UL
Safety File Number(s)	Nemko: P16221200 UL: E150565 CB: N092851



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