

**PART NUMBER:** VFM40 multiple output series

**DESCRIPTION:** open frame AC/DC power supply

**features**

- universal input: 90~264VAC
- 2"x4" footprint
- industry-standard pin out
- efficiency at 75% typical (70% for VFM40-T3512)
- meets UL/cUL, TUV, CE
- Pi input filter
- conductive EMI meets CISPR/FCC class B
- multiple output



model number	output voltage	output current			ripple <sup>1</sup> (mVp-p)	voltage accuracy <sup>2</sup>	line reg. <sup>3</sup>	load reg. <sup>4</sup>	O/P power max.	efficiency (typ.)
		min.	rated	max.						
VFM40-D512	5V(V1)	0.4	3.2	5.0	50	±3%	±1%	±3%	40.0W	77%
	12V(V2)	0.2	2.0	2.5	120	±4%	±2%	±5%		
VFM40-D524	5V(V1)	0.4	3.2	5.0	50	±3%	±1%	±3%	40.0W	78%
	24V(V2)	0.2	1.0	1.5	240	±4%	±2%	±5%		
VFM40-T5125	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	40.5W	75%
	12V(V2)	0.2	2.0	2.5	120	±4%	±2%	±5%		
	-5V(V3)	0	0.3	0.5	50	±3%	±1%	±1%		
VFM40-T512	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	42.6W	75%
	12V(V2)	0.2	2.0	2.5	120	±4%	±2%	±5%		
	-12V(V3)	0	0.3	0.5	120	±3%	±1%	±1%		
VFM40-T515	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	42.0W	75%
	15V(V2)	0.2	1.5	2.3	150	±4%	±2%	±5%		
	-15V(V3)	0	0.3	0.5	150	±3%	±1%	±1%		
VFM40-T52412	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	42.6W	75%
	24V(V2)	0.2	1.0	1.5	240	±4%	±2%	±5%		
	-12V(V3)	0	0.3	0.5	120	±3%	±1%	±1%		
VFM40-T5245	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	40.5W	75%
	24V(V2)	0.2	1.0	1.5	240	±4%	±2%	±5%		
	-5V(V3)	0	0.3	0.5	50	±3%	±1%	±1%		
VFM40-T52412-1	5V(V1)	0.4	3.0	5.0	50	±3%	±1%	±3%	42.6W	75%
	24V(V2)	0.2	1.0	1.5	240	±4%	±2%	±5%		
	12V(V3)	0	0.3	0.5	120	±3%	±1%	±1%		
VFM40-T3512	3.3V(V1)	0.4	5.0	7.0	50	±3%	±1%	±3%	30.0W	70%
	5V(V2)	0.2	2.0	3.5	50	±4%	±2%	±5%		
	12V(V3)	0	0.3	0.5	120	±3%	±1%	±1%		

**NOTES:**

1. add a 0.1µF ceramic capacitor and a 10µF E.L. capacitor to output for ripple and noise measuring @20MHz BW.
2. voltage accuracy is set at full load
3. line regulation is measured from 100VAC to 240VAC with full load.
4. load regulation is measured from 60% to 100% full load and from 60% to 20% full load (60% ±40% full load).

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voltage	90-264VAC; 120-370VDC
frequency	47 to 440Hz
inrush current	50A max. @ 264VAC
input current	1A max. (RMS) @ 115VAC
conducted EMI	CISPR/FCC Class B
isolation	input to output = 4,242VDC
leakage current	0.5mA max.

**OUTPUT**

maximum power for convection cooling	40W (VFM40-T3512, 30W)
30 VFM forced air	50W (VFM40-T3512, 40W)
hold up time	20mS typ. @ 115VAC
short circuit / overload protection	auto recovery (all outputs)
over voltage protection	3.6-4.6V/5.7-6.7V on V1 (3.3V/5V) 120%-140% on V2(12V/15V/24V)
adjustment range	10% typ.

**ENVIRONMENTAL CHARACTERISTICS**

operating temperature	0°C-50°C
storage temperature	-20°C-85°C

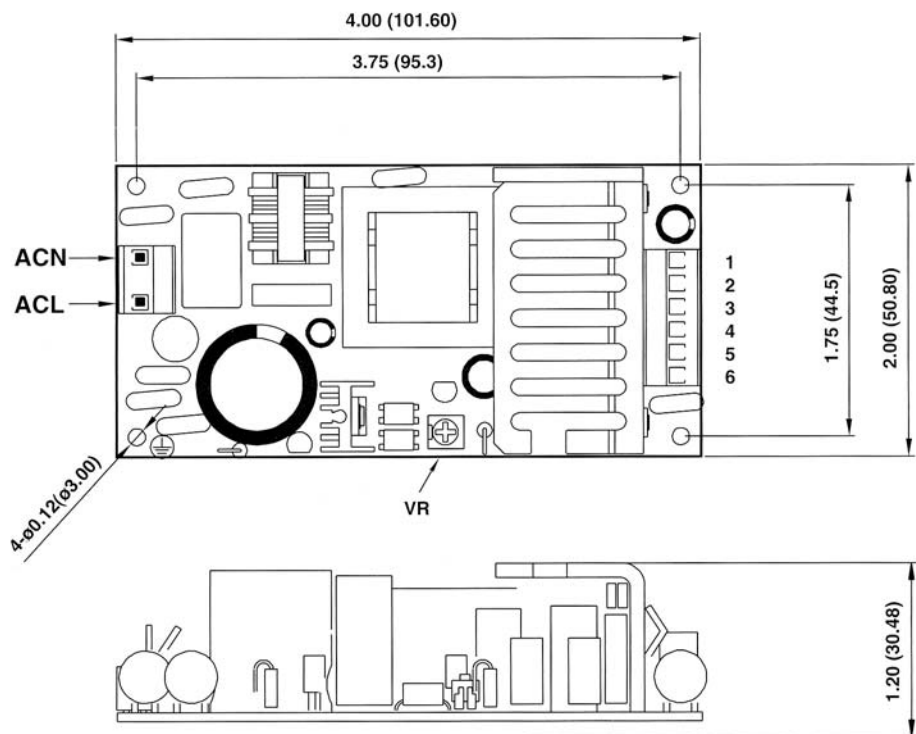
**MECHANICAL OUTLINE**

dimensions	4x2x1.2 inches (101.6x50.8x30.48 mm <sup>3</sup> )
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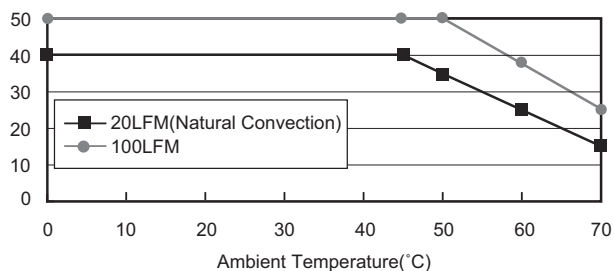
**DIMENSIONS (mm)**



PIN CONNECTION	
Pin	VFM40D/T
1.	V2
2.	V1
3.	V1
4.	COM
5.	COM
6.	V3

**DERATING CURVE**

VFM40D-01, 40D-02, 40T-01, 40T-02, 40T-03, 40T-04, 40T-05, 40T-06



VFM40T-07

