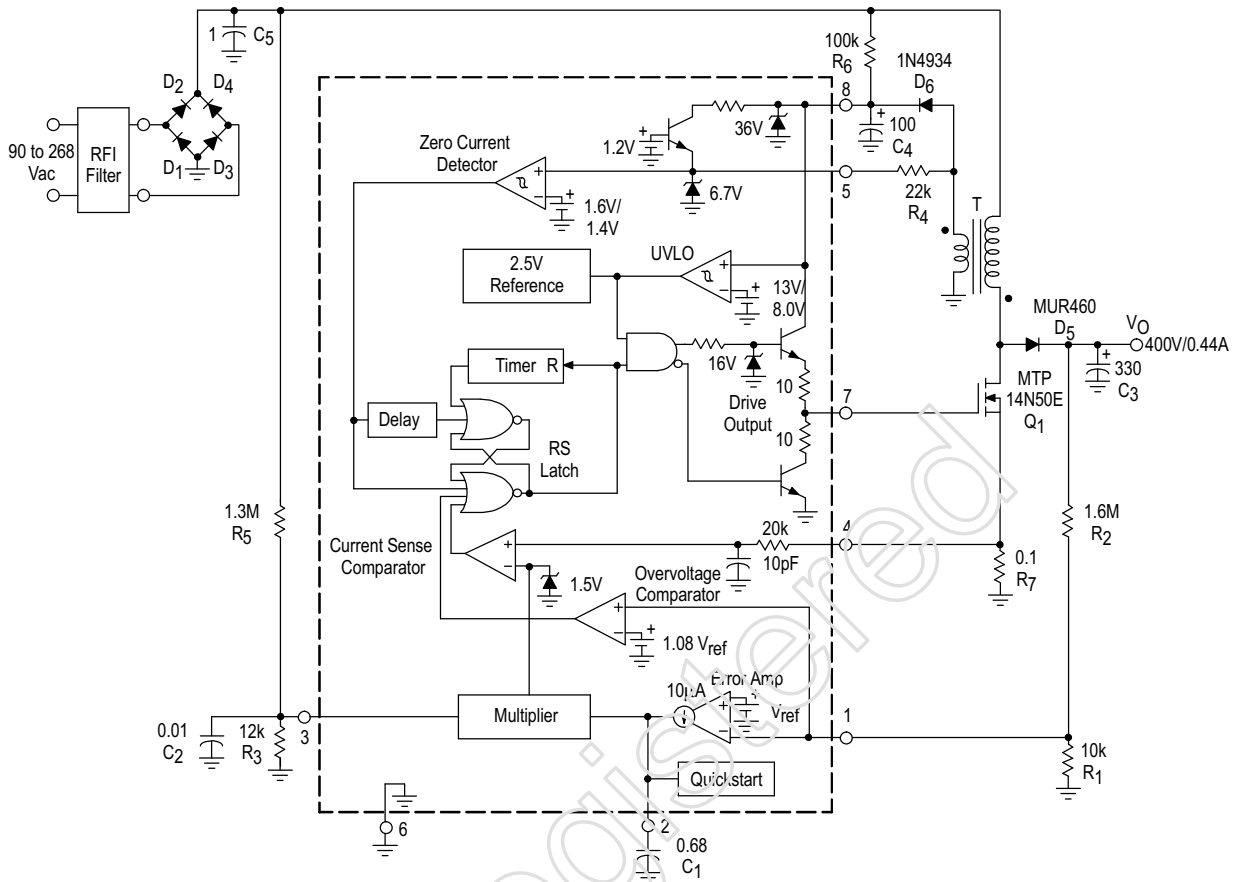


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Figure 20. 175 W Universal Input Power Factor Controller



Power Factor Controller Test Data

V _{rms}	P _{in}	PF	I _{fund}	AC Line Input					DC Output				
				Current Harmonic Distortion (% I _{fund})					V _{O(pp)}	V _O	I _O	P _O	η(%)
				THD	2	3	5	7					
90	193.3	0.991	2.15	2.8	0.18	2.6	0.55	1.0	3.3	402.1	0.44	176.9	91.5
120	190.1	0.998	1.59	1.6	0.10	1.4	0.23	0.72	3.3	402.1	0.44	176.9	93.1
138	188.2	0.999	1.36	1.2	0.12	1.3	0.65	0.80	3.3	402.1	0.44	176.9	94.0
180	184.9	0.998	1.03	2.0	0.10	0.49	1.2	0.82	3.4	402.1	0.44	176.9	95.7
240	182.0	0.993	0.76	4.4	0.09	1.6	2.3	0.51	3.4	402.1	0.44	176.9	97.2
268	180.9	0.989	0.69	5.9	0.10	2.3	2.9	0.46	3.4	402.1	0.44	176.9	97.8

This data was taken with the test set-up shown in Figure 24.

T = Coilcraft N2880-A
 Primary: 78 turns of # 16 AWG
 Secondary: 6 turns of # 18 AWG
 Core: Coilcraft PT4215, EE 42-15
 Gap: 0.104" total for a primary inductance (L_p) of 870 μH
 Heatsink = AAVID Engineering Inc. 590302B03600