

400 Hz MIL-PRF-27F* Power Transformers



Specifications

Input Primary:

115 V ac, 400 Hz ± 20 Hz, 1 Phase

"A" Option: 230 V ac, Add suffix "A" to model number, e.g., 4A5-50A.

"X" Option: Electrostatic shield grounded to core. Add "X" to model number, e.g., 4A5-50X.

Regulation:

10% or less no load to full load.

Secondary Voltage Tolerance:

Within 5% when measured at full load and listed input.

Dielectric Withstanding Voltage:

1500 V ac.

Efficiency:

Ranges from 85% to 93% typical.

Operating Ambient Temperature:

95° C maximum (Size 1 through 6)
70° C maximum (Size 7).

Construction:

To MIL-PRF-27F*, Grade 5, Class S.

Environment:

Encapsulated to meet MIL-STD 810, including vibration, shock, sand, dust humidity, saltspray,

fungus, sunshine, rain, explosion, and altitude (to a vacuum). NOTE: For high altitude operation, encapsulate terminals

Output Secondary:

See voltage and current of specific models listed.

Other outputs and/or inputs available upon request

* Superseded MIL-T-27

Output Volts (F.L.)	Parallel Connection	Series Connection	Size	Wt. Lbs. Typ.	Model No.	QPL No.
5 V Parallel	1.40	0.70	1	.26	4A5-7	M27/332-01
10V.C.T. Series	2.00	1.00	2	.30	4A5-10	M27/333-01
5.00	2.50	3	.47	4A5-25	M27/334-01	
8.00	4.00	4	.77	4A5-40	M27/335-01	
24.00	12.00	5	1.6	4A5-120	M27/336-01	
30.00	15.00	6	2.0	4A5-150	M27/337-01	
6.3 V Parallel	1.11	0.55	1	.26	4A6-7	M27/332-02
126V.C.T.Series	1.58	0.79	2	.30	4A6-10	M27/333-02
4.00	2.00	3	.47	4A6-25	M27/334-02	
8.00	4.00	4	.77	4A6-50	M27/335-02	
19.00	9.50	5	1.6	4A6-120	M27/336-02	
23.80	11.90	6	2.0	4A6-150	M27/337-02	
31.70	15.85	7	2.2	4A6-200	M27/337-11	
8 V Parallel	0.87	0.43	1	.26	4A8-7	M27/332-03
16V.C.T.Series	1.25	0.62	2	.30	4A8-10	M27/333-03
3.12	1.56	3	.47	4A8-25	M27/334-03	
6.24	3.12	4	.77	4A8-50	M27/335-03	
15.00	7.50	5	1.6	4A8-120	M27/336-03	
18.70	9.35	6	2.0	4A8-150	M27/337-03	
25.00	12.50	7	2.2	4A8-200	M27/337-12	
10V Parallel	0.70	0.35	1	.26	4A10-7	M27/332-04
20V.C.T.Series	1.00	0.50	2	.30	4A10-10	M27/333-04
2.50	1.25	3	.47	4A10-25	M27/334-04	
5.00	2.50	4	.77	4A10-50	M27/335-04	
12.00	6.00	5	1.6	4A10-120	M27/336-04	
15.00	7.50	6	2.0	4A10-150	M27/337-04	
20.00	10.00	7	2.2	4A10-200	M27/337-13	
12 V Parallel	0.58	0.29	1	.26	4A12-7	M27/332-05
24V.C.T.Series	0.84	0.42	2	.30	4A12-10	M27/333-05
2.08	1.04	3	.47	4A12-25	M27/334-05	
4.16	2.08	4	.77	4A12-50	M27/335-05	
10.00	5.00	5	1.6	4A12-120	M27/336-05	
12.50	6.25	6	2.0	4A12-150	M27/337-05	
16.70	8.35	7	2.2	4A12-200	M27/337-14	

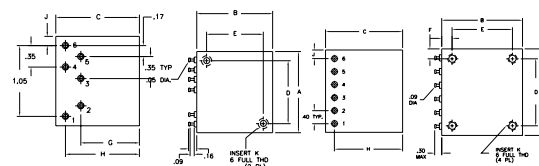
Output Volts (F.L.)	Parallel Connection	Series Connection	Size	Wt. Lbs. Typ.	Model No.	QPL No.
17 V Parallel	0.41	0.20	1	.26	4A17-7	M27/332-06
34V.C.T. Series	0.58	0.29	2	.30	4A17-10	M27/333-06
1.47	0.73	3	.47	4A17-25	M27/334-06	
2.94	1.47	4	.77	4A17-50	M27/335-06	
7.06	3.53	5	1.6	4A17-120	M27/336-06	
8.82	4.41	6	2.0	4A17-150	M27/337-06	
11.80	5.90	7	2.2	4A17-200	M27/337-15	
20V Parallel	0.35	0.17	1	.26	4A20-7	M27/332-07
40V.C.T. Series	0.50	0.25	2	.30	4A20-10	M27/333-07
1.25	0.62	3	.47	4A20-25	M27/334-07	
2.50	1.25	4	.77	4A20-50	M27/335-07	
6.00	3.00	5	1.6	4A20-120	M27/336-07	
7.50	3.75	6	2.0	4A20-150	M27/337-07	
10.00	5.00	7	2.2	4A20-200	M27/337-16	
28V Parallel	0.25	0.12	1	.26	4A28-7	M27/332-08
56V.C.T. Series	0.35	0.17	2	.30	4A28-10	M27/333-08
0.89	0.44	3	.47	4A28-25	M27/334-08	
1.78	0.89	4	.77	4A28-50	M27/335-08	
4.28	2.14	5	1.6	4A28-120	M27/336-08	
5.36	2.68	6	2.0	4A28-150	M27/337-08	
7.14	3.57	7	2.2	4A28-200	M27/337-17	
44V Parallel	0.15	0.07	1	.26	4A44-7	M27/332-09
88 V.C.T. Series	0.22	0.11	2	.30	4A44-10	M27/333-09
0.56	0.28	3	.47	4A44-25	M27/334-09	
1.12	0.56	4	.77	4A44-50	M27/335-09	
2.72	1.36	5	1.6	4A44-120	M27/336-09	
3.40	1.70	6	2.0	4A44-150	M27/337-09	
4.54	2.27	7	2.2	4A44-200	M27/337-18	
60V Parallel	0.11	0.05	1	.26	4A60-7	M27/332-10
120V.C.T. Series	0.16	0.08	2	.30	4A60-10	M27/333-10
0.41	0.20	3	.47	4A60-25	M27/334-10	
0.82	0.41	4	.77	4A60-50	M27/335-10	
2.00	1.00	5	1.6	4A60-120	M27/336-10	
2.50	1.25	6	2.0	4A60-150	M27/337-10	
3.53	1.66	7	2.2	4A60-200	M27/337-19	

Dimensions

Size	A	B	C	D	E	F	G	H	J	K
1	1.37	1.25	1.31	1.00	.87	.19	1.00	1.19	.16	4-40
2	1.50	1.37	1.37	1.12	1.00	.19	1.06	1.25	.22	4-40
3	1.75	1.50	1.56	1.25	1.00	.25	1.25	1.44	.35	6-32
4	2.00	1.62	1.81	1.50	1.12	.25	1.50	1.69	.47	6-32
5	2.43	2.00	2.10	1.93	1.50	.25	-	1.90	.21	6-32
6	2.81	2.12	2.43	2.21	1.52	.30	-	2.23	.40	8-32
7	2.81	2.25	2.43	2.21	1.65	.30	-	2.23	.40	8-32

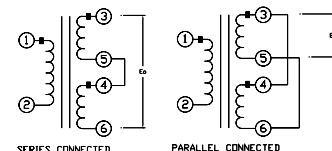
Dimension/Tolerance=± .02, except F, G, H, J=± .04

Mechanical Drawings



Circuit Diagram

Basic Circuit
Series: Connect 4 and 5
Parallel: Connect 5 and 6
Load: 3 and 6



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