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TRANSFORMERS  
AND ADAPTERS

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**Shogyo International Corporation-** serving the OEM with a wide variety of electronic and electrical components. Each product line offers a full range of items manufactured to the highest engineering standards. Custom components and assemblies are available to meet virtually any specification.

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# INTERNATIONAL PC MOUNT POWER TRANSFORMERS

PART NO. PC MOUNT	VA (SIZE)	SECONDARY RMS RATING	
		SERIES	PARALLEL
LP-10-250A	2.5	10.0V C.T. @ 0.25A	5.0V @ 0.50A
LP-10-500A	5.0	10.0V C.T. @ 0.50A	5.0V @ 1.00A
LP-10-1000A	10.0	10.0V C.T. @ 1.00A	5.0V @ 2.00A
LP-10-2000A	20.0	10.0V C.T. @ 2.00A	5.0V @ 4.00A
LP-10-3000A	30.0	10.0V C.T. @ 3.00A	5.0V @ 6.00A
LP-10-600A	56.0	10.0V C.T. @ 5.60A	5.0V @ 11.20A
LP-10-250B	2.5	12.6V C.T. @ 0.20A	6.3V @ 0.40A
LP-10-500B	5.0	12.6V C.T. @ 0.40A	6.3V @ 0.80A
LP-10-1000B	10.0	12.6V C.T. @ 0.80A	6.3V @ 1.60A
LP-10-2000B	20.0	12.6V C.T. @ 1.60A	6.3V @ 3.20A
LP-10-3000B	30.0	12.6V C.T. @ 2.40A	6.3V @ 4.80A
LP-10-5600B	56.0	12.6V C.T. @ 4.40A	6.3V @ 8.80A
LP-10-250C	2.5	16.0V C.T. @ 0.15A	8.0V @ 0.30A
LP-10-500C	5.0	16.0V C.T. @ 0.31A	8.0V @ 0.62A
LP-10-1000C	10.0	16.0V C.T. @ 0.62A	8.0V @ 1.25A
LP-10-2000C	20.0	16.0V C.T. @ 1.25A	8.0V @ 2.50A
LP-10-3000C	30.0	16.0V C.T. @ 1.90A	8.0V @ 3.80A
LP-10-5600C	56.0	16.0V C.T. @ 3.50A	8.0V @ 7.00A
LP-10-250D	2.5	20.0V C.T. @ 0.12A	10.0V @ 0.24A
LP-10-500D	5.0	20.0V C.T. @ 0.25A	10.0V @ 0.50A
LP-10-1000D	10.0	20.0V C.T. @ 0.50A	10.0V @ 1.00A
LP-10-2000D	20.0	20.0V C.T. @ 1.00A	10.0V @ 2.00A
LP-10-3000D	30.0	20.0V C.T. @ 1.50A	10.0V @ 3.00A
LP-10-5600D	56.0	20.0V C.T. @ 2.80A	10.0V @ 5.60A
LP-10-250E	2.5	24.0V C.T. @ 0.10A	12.0V @ 0.20A
LP-10-500E	5.0	24.0V C.T. @ 0.21A	12.0V @ 0.42A
LP-10-1000E	10.0	24.0V C.T. @ 0.42A	12.0V @ 0.84A
LP-10-2000E	20.0	24.0V C.T. @ 0.83A	12.0V @ 1.66A
LP-10-3000E	30.0	24.0V C.T. @ 1.25A	12.0V @ 2.50A
LP-10-5600E	56.0	24.0V C.T. @ 2.33A	12.0V @ 4.66A
LP-10-250F	2.5	28.0V C.T. @ 0.09A	14.0V @ 0.18A
LP-10-500F	5.0	28.0V C.T. @ 0.18A	14.0V @ 0.36A
LP-10-1000F	10.0	28.0V C.T. @ 0.36A	14.0V @ 0.72A
LP-10-2000F	20.0	28.0V C.T. @ 0.72A	14.0V @ 1.44A
LP-10-3000F	30.0	28.0V C.T. @ 1.06A	14.0V @ 2.12A
LP-10-5600F	56.0	28.0V C.T. @ 2.00A	14.0V @ 4.00A
LP-10-250G	2.5	36.0V C.T. @ 0.07A	18.0V @ 0.14A
LP-10-500G	5.0	36.0V C.T. @ 0.14A	18.0V @ 0.28A
LP-10-1000G	10.0	36.0V C.T. @ 0.28A	18.0V @ 0.56A
LP-10-2000G	20.0	36.0V C.T. @ 0.56A	18.0V @ 1.12A
LP-10-3000G	30.0	36.0V C.T. @ 0.82A	18.0V @ 1.64A
LP-10-5600G	56.0	36.0V C.T. @ 1.56A	18.0V @ 3.12A



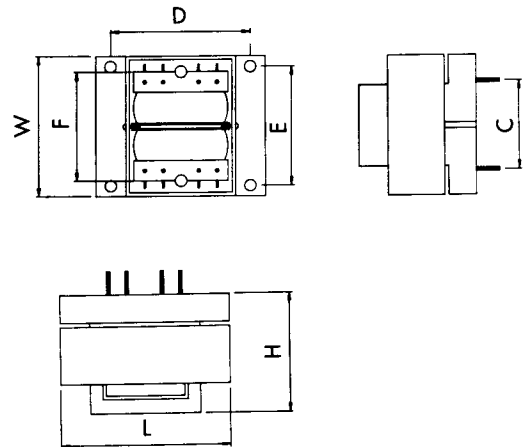
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E154515



CERTIFIED  
LR52082

## CLASS A, B AND F INSULATION SYSTEMS FILE NO. E154515 FOR CLASS B AND F

These transformers are available in both PC and chassis-mount construction. With power ratings of 2.5VA to 175VA. These transformers are built with dual-bobbins and insulating shrouds to provide 4,000V RMS isolation between the primary and the secondary.



### MECHANICAL DIMENSIONS

VA	WT	L	W	H	A	B	C	D	E	F	PIN DIM
2.5	0.25	1.625	1.312	1.125	0.200	0.250	1.000	-	-	1.062	0.025 SQ
5.0	0.37	1.625	1.312	1.375	0.200	0.400	1.000	-	-	1.062	0.025 SQ
10.0	0.53	1.875	1.562	1.375	0.200	0.400	1.140	-	-	1.250	0.038 SQ
20.0	0.90	2.250	1.875	1.625	0.400	0.400	1.460	-	-	1.500	0.038 SQ
30.0	1.15	2.625	2.187	1.562	0.550	0.275	1.680	2.18	2.75	-	0.450 SQ
56.0	1.70	3.000	2.500	1.812	0.600	0.300	1.900	2.50	2.00	-	0.450 SQ

# INTERNATIONAL TERMINAL TYPE POWER TRANSFORMERS

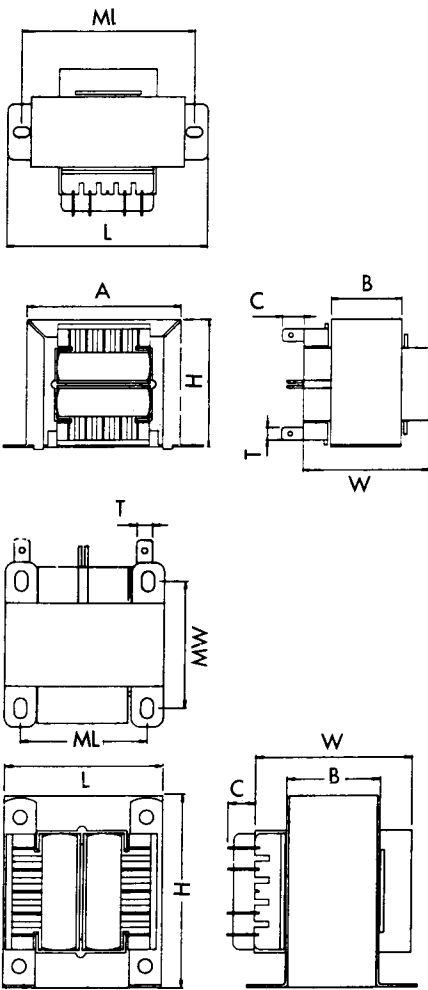


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CERTIFIED  
LR52082

**CLASS A, B AND F  
INSULATION SYSTEMS  
FILE NO. E154515  
FOR CLASS B AND F**



PART NO. PC MOUNT	VA (SIZE)	SECONDARY RATING	
		SERIES	PARALLEL
LT-10-25A	25	10.0V C.T. @ 2.50A	5.0V @ 5.00A
LT-10-43A	43	10.0V C.T. @ 4.30A	5.0V @ 8.60A
LT-10-80A	80	10.0V C.T. @ 8.00A	5.0V @16.00A
LT-10-130A	130	10.0V C.T. @13.00A	5.0V @26.00A
LT-10-175A	175	10.0V C.T. @17.50A	5.0V @35.00A
LT-10-25B	25	12.6V C.T. @ 2.00A	6.3V @ 4.00A
LT-10-43B	43	12.6V C.T. @ 3.40A	6.3V @ 6.80A
LT-10-80B	80	12.6V C.T. @ 6.30A	6.3V @12.60A
LT-10-130B	130	12.6V C.T. @10.30A	6.3V @20.60A
LT-10-175B	175	12.6V C.T. @14.00A	6.3V @28.00A
LT-10-25C	25	16.0V C.T. @ 1.60A	8.0V @ 3.20A
LT-10-43C	43	16.0V C.T. @ 2.70A	8.0V @ 5.40A
LT-10-80C	80	16.0V C.T. @ 5.00A	8.0V @10.00A
LT-10-130C	130	16.0V C.T. @ 8.10A	8.0V @16.20A
LT-10-175C	175	16.0V C.T. @11.00A	8.0V @22.00A
LT-10-25D	25	20.0V C.T. @ 1.25A	10.0V @ 2.50A
LT-10-43D	43	20.0V C.T. @ 2.20A	10.0V @ 4.40A
LT-10-80D	80	20.0V C.T. @ 4.00A	10.0V @ 8.00A
LT-10-130D	130	20.0V C.T. @ 6.50A	10.0V @13.00A
LT-10-175D	175	20.0V C.T. @ 8.80A	10.0V @17.60A
LT-10-25E	25	24.0V C.T. @ 1.00A	12.0V @ 2.00A
LT-10-43E	43	24.0V C.T. @ 1.80A	12.0V @ 3.60A
LT-10-80E	80	24.0V C.T. @ 3.30A	12.0V @ 6.60A
LT-10-130E	130	24.0V C.T. @ 5.40A	12.0V @10.80A
LT-10-175E	175	24.0V C.T. @ 7.30A	12.0V @14.60A
LT-10-25F	25	28.0V C.T. @ 0.90A	14.0V @ 1.80A
LT-10-43F	43	28.0V C.T. @ 1.50A	14.0V @ 3.00A
LT-10-80F	80	28.0V C.T. @ 2.80A	14.0V @ 5.60A
LT-10-130F	130	28.0V C.T. @ 4.60A	14.0V @ 9.20A
LT-10-175F	175	28.0V C.T. @ 6.25A	14.0V @12.50A
LT-10-25G	25	36.0V C.T. @ 0.70A	18.0V @ 1.40A
LT-10-43G	43	36.0V C.T. @ 1.20A	18.0V @ 2.40A
LT-10-80G	80	36.0V C.T. @ 2.20A	18.0V @ 4.40A
LT-10-130G	130	36.0V C.T. @ 3.60A	18.0V @ 7.20A
LT-10-175G	30	36.0V C.T. @ 4.80A	18.0V @ 9.60A
LT-10-25H	25	230.0V C.T. @ 0.11A	115.0V @ 0.22A
LT-10-43H	43	230.0V C.T. @ 0.19A	115.0V @ 0.38A
LT-10-80H	80	230.0V C.T. @ 0.35A	115.0V @ 0.70A
LT-10-130H	130	230.0V C.T. @ 0.57A	115.0V @ 1.14A
LT-10-175H	175	230.0V C.T. @ 0.76A	115.0V @ 1.52A

## MECHANICAL DIMENSIONS

VA	WT	L	W	H	A	B	C	T	ML	MW
25	1.250	2.182	1.875	2.312	2.000	1.125	0.312	0.187	2.375	-
43	1.600	3.125	2.062	2.687	2.250	1.125	0.312	0.187	2.812	-
80	2.800	2.500	2.375	3.000	-	1.375	0.312	0.187	2.000	2.18
130	4.100	2.182	2.875	3.375	-	1.625	0.375	0.250	2.250	2.50
175	5.200	3.125	2.875	3.750	-	1.625	0.375	0.250	2.500	2.50

# PC MOUNT DB TYPE POWER TRANSFORMERS

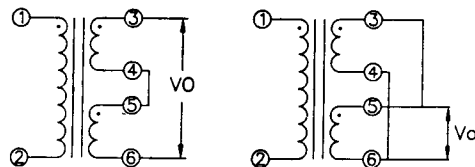


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## CLASS A, B AND F INSULATION SYSTEMS FILE NO. E154515 FOR CLASS B AND F

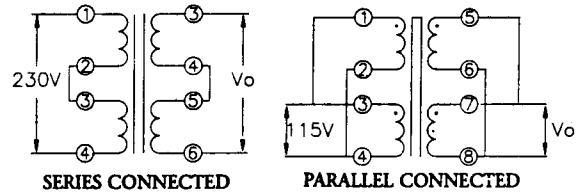
- High isolation - pass 2500V RMS typical
- Low coupling capacitance, no electro-static shield necessary
- No cross-overs of primary & secondary leads
- PC pins allow direct insertion in PC boards

### SINGLE 115V OR 230V 50/60Hz 6 PIN TYPE



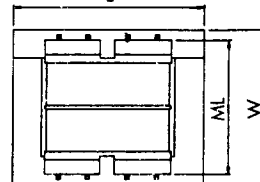
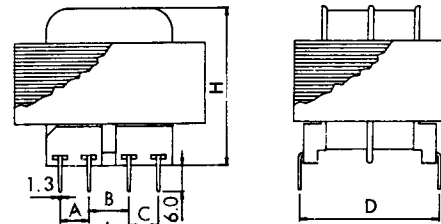
NOTE: PIN 2 AND 3 CAN BE ADDED IF REQUESTED BY CUSTOMER

### DUAL 115V / 230V 50/60Hz 8 PIN TYPE



SERIES CONNECTED

PARALLEL CONNECTED



SIZE	VA	L	W	H	ML	A	B	C
2	1.1	1.375(34.93)	1.125(28.58)	0.938(23.83)		0.250(6.35)	0.250(6.35)	1.200(30.48)
3	2.4	1.357(34.93)	1.125(28.58)	1.187(30.15)	1.312(33.32)	0.250(6.35)	0.250(6.35)	1.200(30.48)
4	6	1.625(41.28)	1.312(33.32)	1.312(33.32)	1.063(27.00)	0.250(6.35)	0.350(8.89)	1.280(32.51)
5	12	1.875(47.63)	1.562(39.67)	1.437(36.50)	1.250(31.75)	0.300(7.62)	0.400(10.16)	1.410(35.81)
6	20	2.250(57.15)	1.875(47.63)	1.437(36.50)	1.500(38.10)	0.300(7.62)	0.400(10.16)	1.600(40.64)
7	36	2.625(66.68)	2.187(55.55)	1.562(39.67)		0.400(10.16)	0.400(10.16)	1.800(45.72)

PART NUMBER		SECONDARY RATING	
SINGLE 115V 6 PIN	DUAL 115/230V 8 PIN	SERIES	PARALLEL
DB-2-10	DDB-2-10	10.0V C.T. @ 0.110A	5.0V @ 0.220A
DB-2-12	DDB-2-12	12.6V C.T. @ 0.090A	6.3V @ 0.180A
DB-2-16	DDB-2-16	16.0V C.T. @ 0.070A	8.0V @ 0.140A
DB-2-20	DDB-2-20	20.0V C.T. @ 0.055A	10.0V @ 0.110A
DB-2-24	DDB-2-24	24.0V C.T. @ 0.045A	12.0V @ 0.090A
DB-2-28	DDB-2-28	28.0V C.T. @ 0.040A	14.0V @ 0.080A
DB-2-36	DDB-2-36	36.0V C.T. @ 0.030A	18.0V @ 0.060A
DB-2-48	DDB-2-48	48.0V C.T. @ 0.023A	24.0V @ 0.046A
DB-2-56	DDB-2-56	56.0V C.T. @ 0.020A	28.0V @ 0.040A
DB-2-120	DDB-2-120	120.0V C.T. @ 0.010A	60.0V @ 0.020A
DB-3-10	DDB-3-10	10.0V C.T. @ 0.250A	5.0V @ 0.500A
DB-3-12	DDB-3-12	12.6V C.T. @ 0.200A	6.3V @ 0.400A
DB-3-16	DDB-3-16	16.0V C.T. @ 0.150A	8.0V @ 0.300A
DB-3-20	DDB-3-20	20.0V C.T. @ 0.120A	10.0V @ 0.240A
DB-3-24	DDB-3-24	24.0V C.T. @ 0.100A	12.0V @ 0.200A
DB-3-28	DDB-3-28	28.0V C.T. @ 0.085A	14.0V @ 0.170A
DB-3-36	DDB-3-36	36.0V C.T. @ 0.065A	18.0V @ 0.130A
DB-3-48	DDB-3-48	48.0V C.T. @ 0.050A	24.0V @ 0.100A
DB-3-56	DDB-3-56	56.0V C.T. @ 0.045A	28.0V @ 0.090A
DB-3-120	DDB-3-120	120.0V C.T. @ 0.020A	60.0V @ 0.040A
DB-4-10	DDB-4-10	10.0V C.T. @ 1.200A	5.0V @ 1.200A
DB-4-12	DDB-4-12	12.6V C.T. @ 1.000A	6.3V @ 1.000A
DB-4-16	DDB-4-16	16.0V C.T. @ 0.400A	8.0V @ 0.800A
DB-4-20	DDB-4-20	20.0V C.T. @ 0.300A	10.0V @ 0.600A
DB-4-24	DDB-4-24	24.0V C.T. @ 0.250A	12.0V @ 0.500A
DB-4-28	DDB-4-28	28.0V C.T. @ 0.200A	14.0V @ 0.400A
DB-4-36	DDB-4-36	36.0V C.T. @ 0.170A	18.0V @ 0.340A
DB-4-48	DDB-4-48	48.0V C.T. @ 0.125A	24.0V @ 0.250A
DB-4-56	DDB-4-56	56.0V C.T. @ 0.110A	28.0V @ 0.220A
DB-4-120	DDB-4-120	120.0V C.T. @ 0.050A	60.0V @ 0.100A
DB-5-10	DDB-5-10	10.0V C.T. @ 1.200A	5.0V @ 2.400A
DB-5-12	DDB-5-12	12.6V C.T. @ 1.000A	6.3V @ 2.000A
DB-5-16	DDB-5-16	16.0V C.T. @ 0.800A	8.0V @ 1.600A
DB-5-20	DDB-5-20	20.0V C.T. @ 0.600A	10.0V @ 1.200A
DB-5-24	DDB-5-24	24.0V C.T. @ 0.500A	12.0V @ 1.000A
DB-5-28	DDB-5-28	28.0V C.T. @ 0.420A	14.0V @ 0.840A
DB-5-36	DDB-5-36	36.0V C.T. @ 0.350A	18.0V @ 0.700A
DB-5-48	DDB-5-48	48.0V C.T. @ 0.250A	24.0V @ 0.500A
DB-5-56	DDB-5-56	56.0V C.T. @ 0.220A	28.0V @ 0.440A
DB-5-120	DDB-5-120	120.0V C.T. @ 0.100A	60.0V @ 0.200A
DB-6-10	DDB-6-10	10.0V C.T. @ 2.000A	5.0V @ 4.000A
DB-6-12	DDB-6-12	12.6V C.T. @ 1.600A	6.3V @ 3.200A
DB-6-16	DDB-6-16	16.0V C.T. @ 1.250A	8.0V @ 2.500A
DB-6-20	DDB-6-20	20.0V C.T. @ 1.000A	10.0V @ 2.000A
DB-6-24	DDB-6-24	24.0V C.T. @ 0.800A	12.0V @ 1.600A
DB-6-28	DDB-6-28	28.0V C.T. @ 0.700A	14.0V @ 1.400A
DB-6-36	DDB-6-36	36.0V C.T. @ 0.550A	18.0V @ 1.100A
DB-6-48	DDB-6-48	48.0V C.T. @ 0.400A	24.0V @ 0.800A
DB-6-56	DDB-6-56	56.0V C.T. @ 0.350A	28.0V @ 0.700A
DB-6-120	DDB-6-120	120.0V C.T. @ 0.160A	60.0V @ 0.320A
DB-7-10	DDB-7-10	10.0V C.T. @ 3.600A	5.0V @ 7.200A
DB-7-12	DDB-7-12	12.6V C.T. @ 2.850A	6.3V @ 5.700A
DB-7-16	DDB-7-16	16.0V C.T. @ 2.250A	8.0V @ 4.500A
DB-7-20	DDB-7-20	20.0V C.T. @ 1.800A	10.0V @ 3.600A
DB-7-24	DDB-7-24	24.0V C.T. @ 1.500A	12.0V @ 3.000A
DB-7-28	DDB-7-28	28.0V C.T. @ 1.300A	14.0V @ 2.600A
DB-7-36	DDB-7-36	36.0V C.T. @ 1.000A	18.0V @ 2.000A
DB-7-48	DDB-7-48	48.0V C.T. @ 0.750A	24.0V @ 1.500A
DB-7-56	DDB-7-56	56.0V C.T. @ 0.650A	28.0V @ 1.300A
DB-7-120	DDB-7-120	120.0V C.T. @ 0.300A	60.0V @ 0.600A

# PC MOUNT LOW PROFILE HD TYPE POWER TRANSFORMERS

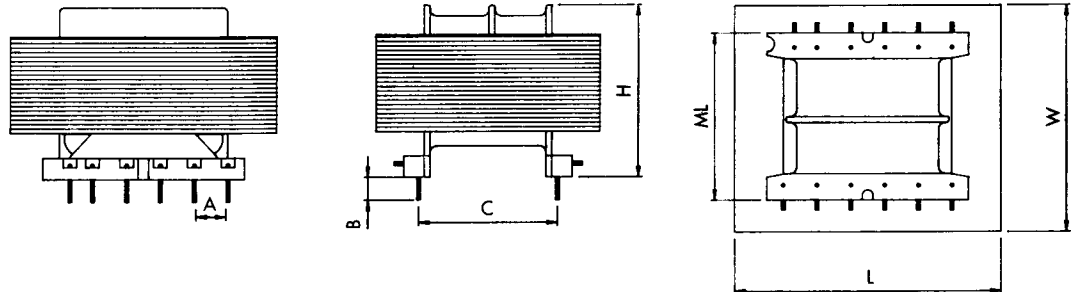


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- Total 12 pins suitable for multi output or multi tap circuit requirements
- Low profile and cost effective
- Good mounting stability & low vibration
- Pass hi-pot 1500V RMS

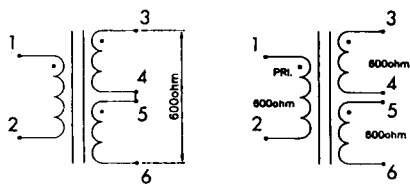
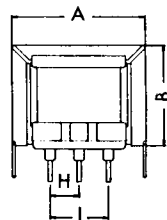
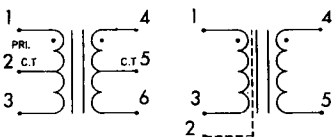
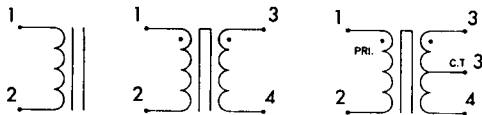
## CLASS A, B AND F INSULATION SYSTEMS FILE NO. E154515 FOR CLASS B AND F

SIZE (VA)	L	W	H	ML	A	B	C
1.2	1.375 (35)	1.300 (33.02)	1.000 (25.40)	1.312 (33.32)	.200 (5.08)	.150 (3.81)	.862 (21.89)
4.4	1.625 (41)	1.450 (36.83)	1.130 (28.70)	1.063 (27.00)	.250 (6.35)	.200 (5.08)	.950 (24.13)
10	1.875 (48)	1.580 (40.13)	1.260 (32.00)	1.250 (31.75)	.300 (7.62)	.200 (5.08)	1.100 (27.94)
20	2.250 (57)	1.875 (47.63)	1.540 (39.12)	1.500 (38.10)	.300 (7.62)	.200 (5.08)	1.300 (33.02)



# TELEPHONE COUPLING TRANSFORMERS

- Direct plug into PC board
- High reliability
- Meets FCC Part 68 requirements
- Unit also built to customer specifications



PART NO.	PRIMARY IMPEDANCE	SECONDARY IMPEDANCE	DC BIAS (mA)	FREQ. RESPONSE @ 300 - 3.5 KHz	INSERTION LOSS @ 1 KHz	SCHEMATIC NO.
TA-001	600	600 C.T.	0	± 0.5dB	1.0dB max	5
TA-002	600	600 C.T.	0	± 0.5dB	1.0dB max	4
TA-003	200	600	100	± 1.2dB	1.5dB max	2
TA-004	600	600 C.T.	120	± 0.5dB	1.0dB max	6
TA-005	600	600 C.T.	90	± 1.0dB	3.0dB max	3
TA-006	600	600 C.T.	0	± 0.2dB	0.6dB max	3
TA-007	642	600	80	± 1.9dB	2.0dB max	2
TA-008	600	440	75	± 2.0dB	1.5dB max	2
TA-009	512	32	0	± 1.0dB	1.0dB max	2
			HYBRID			
TB-001	600	600/600	0	± 0.5dB	1.5dB max	7
TB-002	600	600/600	0	± 0.5dB	1.5dB max	7

CORE SIZE	DIMENSIONS (mm)								
	A	B	C	D	E	F	G	H	I
a EI-19x5	20.32	18.30	6.68	17.48	13.97	5.58	0.7	4.19	9.48
b EI-19x8	20.32	16.00	8.20	17.28	13.00	6.50	0.7	4.90	9.30
c EI-24x7	24.50	18.50	7.00	20.80	17.48	4.00	0.7	5.02	10.04
d EI-25.4x10	25.16	22.30	11.28	26.40	21.76	4.75	0.8	4.95	9.90

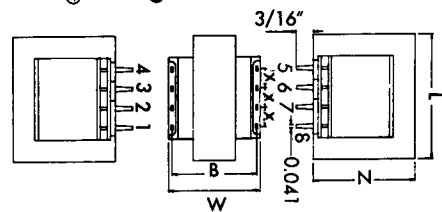
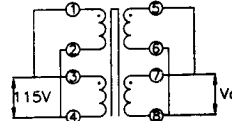
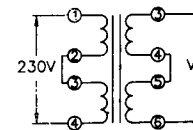
# PC MOUNT VB TYPE POWER TRANSFORMERS

PRIMARY 50/500Hz		SECONDARY RMS RATING		SIZE
SINGLE 115V (6 pin)	DUAL 115V/230V (8 pin)	SERIES	PARALLEL VA	
VB- 10-90	DVB 10-90	10.0V C.T. @ 90mA	5.0V @ 180mA	1.0
VB- 10-120	DVB 10-120	10.0V C.T. @ 120mA	5.0V @ 240mA	1.2
VB- 10-440	DVB 10-440	10.0V C.T. @ 440mA	5.0V @ 880mA	4.4
VB- 10-1000	DVB 10-1000	10.0V C.T. @ 1000mA	5.0V @ 2000mA	10.0
VB- 10-2400	DVB 10-2400	10.0V C.T. @ 2400mA	5.0V @ 4800mA	24.0
VB- 12-70	DVB 12-70	12.6V C.T. @ 70mA	6.3V @ 140mA	1.0
VB- 12-100	DVB 12-100	12.6V C.T. @ 100mA	6.3V @ 200mA	1.2
VB- 12-350	DVB 12-350	12.6V C.T. @ 350mA	6.3V @ 700mA	4.4
VB- 12-800	DVB 12-800	12.6V C.T. @ 800mA	6.3V @ 1600mA	10.0
VB- 12-2000	DVB 12-2000	12.6V C.T. @ 2000mA	6.3V @ 4000mA	24.0
VB- 16-55	DVB 16-55	16.0V C.T. @ 55mA	8.0V @ 110mA	1.0
VB- 16-75	DVB 16-75	16.0V C.T. @ 75mA	8.0V @ 150mA	1.2
VB- 16-260	DVB 16-260	16.0V C.T. @ 260mA	8.0V @ 520mA	4.4
VB- 16-640	DVB 16-640	16.0V C.T. @ 640mA	8.0V @ 1280mA	10.0
VB- 16-1500	DVB 16-1500	16.0V C.T. @ 1500mA	8.0V @ 3000mA	24.0
VB- 20-45	DVB 20-45	20.0V C.T. @ 45mA	10.0V @ 90mA	1.0
VB- 20-60	DVB 20-60	20.0V C.T. @ 60mA	10.0V @ 120mA	1.2
VB- 20-220	DVB 20-220	20.0V C.T. @ 220mA	10.0V @ 440mA	4.4
VB- 20-500	DVB 20-500	20.0V C.T. @ 500mA	10.0V @ 1000mA	10.0
VB- 20-1200	DVB 20-1200	20.0V C.T. @ 1200mA	10.0V @ 2400mA	24.0
VB- 24-35	DVB 24-35	24.0V C.T. @ 35mA	12.0V @ 70mA	1.0
VB- 24-50	DVB 24-50	24.0V C.T. @ 50mA	12.0V @ 100mA	1.2
VB- 24-180	DVB 24-180	24.0V C.T. @ 180mA	12.0V @ 360mA	4.4
VB- 24-450	DVB 24-800	24.0V C.T. @ 450mA	12.0V @ 900mA	10.0
VB- 24-1000	DVB 24-1000	24.0V C.T. @ 1000mA	12.0V @ 2000mA	24.0
VB- 28-30	DVB 28-30	28.0V C.T. @ 30mA	14.0V @ 60mA	1.0
VB- 28-40	DVB 28-40	28.0V C.T. @ 40mA	14.0V @ 80mA	1.2
VB- 28-160	DVB 28-160	28.0V C.T. @ 160mA	14.0V @ 320mA	4.4
VB- 28-380	DVB 28-360	28.0V C.T. @ 360mA	14.0V @ 720mA	10.0
VB- 28-800	DVB 28-800	28.0V C.T. @ 800mA	14.0V @ 1600mA	24.0
VB- 34-25	DVB 34-25	34.0V C.T. @ 25mA	17.0V @ 50mA	1.0
VB- 34-35	DVB 34-35	34.0V C.T. @ 35mA	17.0V @ 70mA	1.2
VB- 34-125	DVB 34-125	34.0V C.T. @ 125mA	17.0V @ 250mA	4.4
VB- 34-300	DVB 34-300	34.0V C.T. @ 300mA	17.0V @ 600mA	10.0
VB- 34-700	DVB 34-700	34.0V C.T. @ 700mA	17.0V @ 1400mA	24.0
VB- 40-20	DVB 40-20	40.0V C.T. @ 20mA	20.0V @ 40mA	1.0
VB- 40-30	DVB 40-30	40.0V C.T. @ 30mA	20.0V @ 60mA	1.2
VB- 40-110	DVB 40-110	40.0V C.T. @ 110mA	20.0V @ 220mA	4.4
VB- 40-250	DVB 40-250	40.0V C.T. @ 250mA	20.0V @ 500mA	10.0
VB- 40-600	DVB 40-600	40.0V C.T. @ 600mA	20.0V @ 1200mA	24.0
VB- 56-15	DVB 56-15	56.0V C.T. @ 15mA	28.0V @ 30mA	1.0
VB- 56-20	DVB 56-20	56.0V C.T. @ 20mA	28.0V @ 40mA	1.2
VB- 56-80	DVB 56-80	56.0V C.T. @ 80mA	28.0V @ 160mA	4.4
VB- 56-180	DVB 56-180	56.0V C.T. @ 180mA	28.0V @ 360mA	10.0
VB- 56-420	DVB 56-420	56.0V C.T. @ 420mA	28.0V @ 840mA	24.0
VB- 120-8	DVB 120-8	120.0V C.T. @ 8mA	60.0V @ 16mA	1.0
VB- 120-10	DVB 120-10	120.0V C.T. @ 10mA	60.0V @ 20mA	1.2
VB- 120-35	DVB 120-35	120.0V C.T. @ 35mA	60.0V @ 70mA	4.4
VB- 120-85	DVB 120-85	120.0V C.T. @ 85mA	60.0V @ 170mA	10.0
VB- 120-200	DVB 120-200	120.0V C.T. @ 200mA	60.0V @ 400mA	24.0

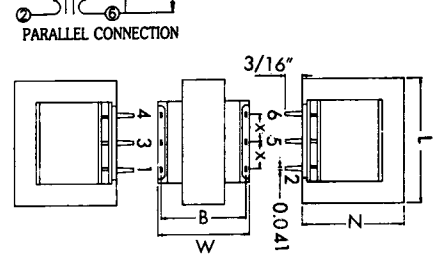
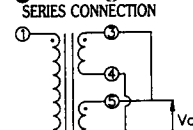
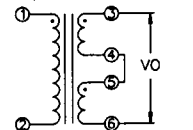


## CLASS A, B AND F INSULATION SYSTEMS FILE NO. E154515 FOR CLASS B AND F

SINGLE 115V/230V  
50/60 Hz 6 PIN TYPE



SINGLE 115V/230V  
50/60Hz 6 PIN TYPE



SIZE (VA)	L	W	H	6 PIN X	8 PIN A	B
1.0	1.375 (35)	1.125 (28.58)	1.188 (30.18)	0.312 (7.92)	.200 (5.80)	1.000 (25.40)
1.2	1.375 (35)	1.125 (28.58)	1.188 (30.18)	0.312 (7.92)	.200 (5.80)	1.000 (25.40)
4.4	1.625 (41)	1.250 (31.75)	1.375 (34.93)	0.400 (10.16)	.250 (6.35)	1.100 (27.94)
10.0	1.875 (48)	1.438 (36.53)	1.625 (41.28)	0.400 (10.16)	.250 (6.35)	1.300 (33.02)
24.0	1.625 (41)	2.250 (57.15)	1.375 (34.93)	0.400 (10.16)	.250 (6.35)	2.100 (53.34)

# "UI" TYPE POWER TRANSFORMERS SPLIT BOBBIN



E58127  
E154515

## LOW PROFILE FOR PRINTED CIRCUIT APPLICATIONS

**LOW PROFILE:** Allows 3/4" card spacing for 2.5VA units, 1 inch card spacing for 6VA units, and 1 1/4" inch card spacing for 12VA units.

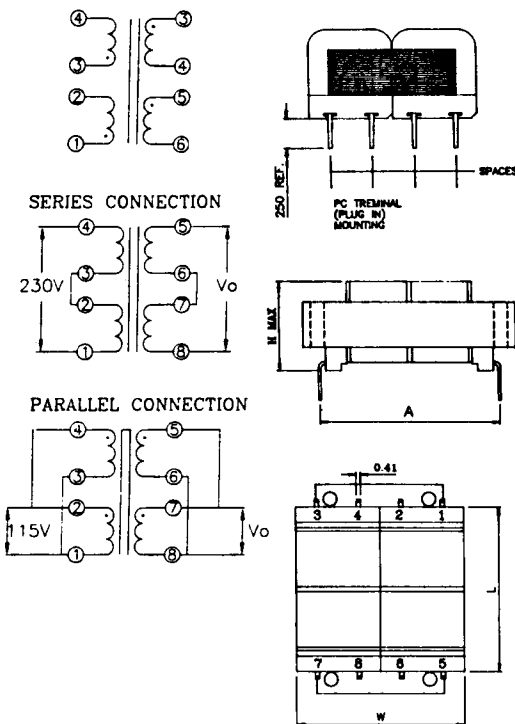
**DUAL PRIMARIES:** 115/230V, 50/60 Hz.

**NON CONCENTRIC WINDING:** Where secondary is wound along side primary rather than directly over it. This added isolation reduces inter-winding capacitance and eliminates the need for an electro-static shield.

**1500V RMS Hi-Pot:** Standard with non-concentric winding.

The UI SERIES of transformers is ideal for low height, critical PC board power applications in semi-conductors control and instrumentation. They are used extensively in single or dual output DC supplies and isolated control circuit and reference supplies.

### BASIC SCHEMATIC DIAGRAM



PART NO.	SIZE	SECONDARY	
		SERIES	PARALLEL
UI-10-050	2	10.0V C.T. @ 50mA	5.0V @ 100mA
UI-10-250	2	10.0V C.T. @ 250mA	5.0V @ 500mA
UI-10-600	6	10.0V C.T. @ 600mA	5.0V @ 1200mA
UI-10-1200	12	10.0V C.T. @ 1200mA	5.0V @ 2400mA
UI-12-200	2	12.6V C.T. @ 200mA	6.3V @ 400mA
UI-12-450	6	12.6V C.T. @ 450mA	6.3V @ 900mA
UI-12-900	12	12.6V C.T. @ 900mA	6.3V @ 1800mA
UI-16-150	2	16.0V C.T. @ 150mA	8.0V @ 300mA
UI-16-350	6	16.0V C.T. @ 350mA	8.0V @ 700mA
UI-16-700	12	16.0V C.T. @ 700mA	8.0V @ 1400mA
UI-18-135	2	18.0V C.T. @ 135mA	9.0V @ 270mA
UI-18-325	6	18.0V C.T. @ 325mA	9.0V @ 650mA
UI-18-650	12	18.0V C.T. @ 650mA	9.0V @ 1300mA
UI-20-125	2	20.0V C.T. @ 125mA	10.0V @ 250mA
UI-20-300	6	20.0V C.T. @ 300mA	10.0V @ 600mA
UI-20-600	12	20.0V C.T. @ 600mA	10.0V @ 1200mA
UI-24-100	2	24.0V C.T. @ 100mA	12.0V @ 200mA
UI-24-250	6	24.0V C.T. @ 250mA	12.0V @ 500mA
UI-24-500	12	24.0V C.T. @ 500mA	12.0V @ 1000mA
UI-28-90	2	28.0V C.T. @ 90mA	14.0V @ 180mA
UI-28-215	6	28.0V C.T. @ 215mA	14.0V @ 430mA
UI-28-430	12	28.0V C.T. @ 430mA	14.0V @ 860mA
UI-34-75	2	34.0V C.T. @ 75mA	17.0V @ 150mA
UI-34-170	6	34.0V C.T. @ 170mA	17.0V @ 340mA
UI-34-340	12	34.0V C.T. @ 340mA	17.0V @ 680mA
UI-40-60	2	40.0V C.T. @ 60mA	20.0V @ 120mA
UI-40-150	6	40.0V C.T. @ 150mA	20.0V @ 300mA
UI-40-300	12	40.0V C.T. @ 300mA	20.0V @ 600mA
UI-48-125	6	48.0V C.T. @ 125mA	24.0V @ 250mA
UI-56-45	2	56.0V C.T. @ 45mA	28.0V @ 90mA
UI-56-100	6	56.0V C.T. @ 100mA	28.0V @ 200mA
UI-56-200	12	56.0V C.T. @ 200mA	28.0V @ 400mA
UI-88-28	2	88.0V C.T. @ 28mA	44.0V @ 56mA
UI-88-65	6	88.0V C.T. @ 65mA	44.0V @ 130mA
UI-88-130	12	88.0V C.T. @ 130mA	44.0V @ 260mA
UI-120-20	2	120.0V C.T. @ 20mA	60.0V @ 40mA
UI-120-50	6	120.0V C.T. @ 50mA	60.0V @ 100mA
UI-120-100	12	120.0V C.T. @ 100mA	60.0V @ 200mA
UI-230-10	2	230.0V C.T. @ 10mA	115.0V @ 20mA
UI-230-25	6	230.0V C.T. @ 25mA	115.0V @ 50mA
UI-230-50	12	230.0V C.T. @ 50mA	115.0V @ 100mA

Regulation of Size 2 and 6 units is 30%, i.e. no secondary voltage load is 30% higher than full load.  
Regulation of Size 12 units is 20%.

SIZE	L	W	H	A	B
2	1.875 (47.63)	1.563 (39.70)	0.650 (16.51)	1.600 (40.64)	0.375 (9.53)
6	1.875 (47.63)	1.563 (39.70)	0.850 (21.59)	1.600 (40.64)	0.375 (9.53)
12	2.500 (63.50)	2.000 (50.80)	1.065 (27.05)	2.000 (50.80)	0.500 (12.70)

# DIRECT PLUG-IN TRANSFORMERS

SERIES 35

## DC OUTPUT MODELS

Model #	Output	UL	CSA	ETL
350301	3V DC 100 mA	•	•	
350302	3V DC 200 mA	•	•	
350303	3V DC 300 mA	•	•	
350304	3V DC 400 mA	•	•	
350305	3V DC 500 mA	•	•	
350401	4.5V DC 100 mA	•	•	
3504011	4.5V DC 110 mA	•	•	
350402	4.5V DC 200 mA	•	•	
350403	4.5V DC 300 mA	•	•	
350404	4.5V DC 400 mA	•	•	
350405	4.5V DC 500 mA	•	•	
35048015002NO	4.8V DC 150 mA	•		
350601	6V DC 100 mA	•	•	
3506015	6V DC 150 mA	•	•	
350602	6V DC 200 mA	•	•	
350603	6V DC 300 mA	•	•	
350604	6V DC 400 mA	•	•	
350605	6V DC 500 mA	•	•	
350701	7.2V DC 100 mA	•	•	
35072015002NO	7.2V DC 150 mA	•		
350702	7.2V DC 200 mA	•	•	
350703	7.2V DC 300 mA	•	•	
350704	7.2V DC 400 mA	•	•	
350705	7.2V DC 500 mA	•	•	
350802	8V DC 200 mA	•	•	
350803	8V DC 300 mA	•	•	
350901	9V DC 100 mA	•	•	
350981002CO	9V DC 120 mA	•	•	
350902	9V DC 200 mA	•	•	
350903	9V DC 300 mA	•	•	
351201	12V DC 100 mA	•	•	
351202	12V DC 200 mA	•	•	
35120250	12V DC 250 mA	•	•	
351501	15V DC 100 mA	•	•	
351502	15V DC 200 mA	•	•	
351601	16V DC 100 mA	•	•	
351801	18V DC 100 mA	•	•	
352101	21V DC 100 mA	•	•	
352401	24V DC 100 mA	•	•	

## AC OUTPUT MODELS

Model #	Output	UL	CSA
A350401	4V AC 100 mA	•	•
A350402	4V AC 200 mA	•	•
A350403	4V AC 300 mA	•	•
A350404	4V AC 400 mA	•	•
A350405	4V AC 500 mA	•	•
A350406	4V AC 600 mA	•	•
A350407	4V AC 700 mA	•	•
A350408	4V AC 800 mA	•	•
A350409	4V AC 900 mA	•	•
A350501	5V AC 100 mA	•	•
A350502	5V AC 200 mA	•	•
A350503	5V AC 300 mA	•	•
A350504	5V AC 400 mA	•	•
A350505	5V AC 500 mA	•	•
A350506	5V AC 600 mA	•	•
A350507	5V AC 700 mA	•	•
A350601	6V AC 100 mA	•	•
A350602	6V AC 200 mA	•	•
A350603	6V AC 300 mA	•	•
A350604	6V AC 400 mA	•	•
A350605	6V AC 500 mA	•	•
A350606	6V AC 600 mA	•	•
A350607	6V AC 700 mA	•	•
A350701	7V AC 100 mA	•	•
A350702	7V AC 200 mA	•	•
A350703	7V AC 300 mA	•	•
A350704	7V AC 400 mA	•	•
A350705	7V AC 500 mA	•	•
A350801	8V AC 100 mA	•	•
A350802	8V AC 200 mA	•	•
A350803	8V AC 300 mA	•	•
A350804	8V AC 400 mA	•	•
A350805	8V AC 500 mA	•	•
A350901	9V AC 100 mA	•	•
A350902	9V AC 200 mA	•	•
A350903	9V AC 300 mA	•	•
A350904	9V AC 400 mA	•	•
A351001	10V AC 100 mA	•	•
A351002	10V AC 200 mA	•	•
A351003	10V AC 300 mA	•	•
A351004	10V AC 400 mA	•	•
A351101	11V AC 100 mA	•	•
A351201	12V AC 100 mA	•	•
A351202	12V AC 200 mA	•	•
A351203	12V AC 300 mA	•	•
A351204	12V AC 400 mA	•	•
A351501	15V AC 100 mA	•	•
A351502	15V AC 200 mA	•	•
A351503	15V AC 300 mA	•	•
A351601	16V AC 100 mA	•	•
A351602	16V AC 200 mA	•	•
A351603	16V AC 300 mA	•	•
A351801	18V AC 100 mA	•	•
A351802	18V AC 200 mA	•	•
A352001	20V AC 100 mA	•	•
A352002	20V AC 200 mA	•	•
A352201	22V AC 100 mA	•	•
A352202	22V AC 200 mA	•	•
A352401	24V AC 100 mA	•	•
A352402	24V AC 200 mA	•	•
A352701	27V AC 100 mA	•	•



E82456



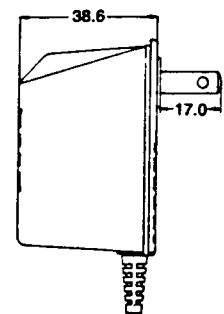
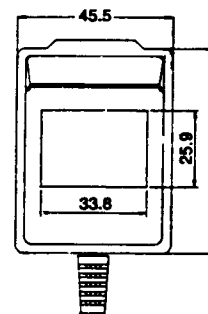
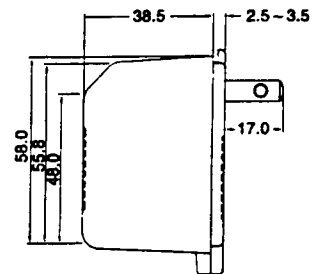
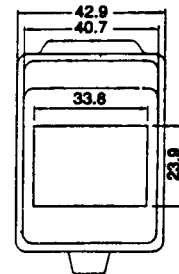
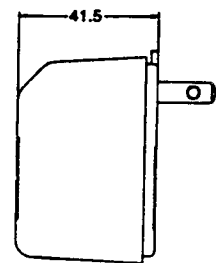
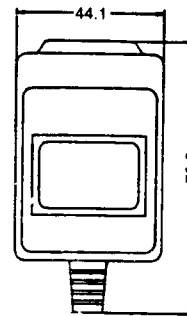
LR52082



506677

- UL LISTED FILE E82456
- ETL LISTED NO. 506677
- CSA CERTIFIED FILE LR52082

POWER BATTERY, CLASS 2 TRANSFORMER  
BATTERY CHARGER (DC OUTPUT)



NOTE: DIMENSIONS IN MILLIMETER  
SEE CONNECTORS - PG 15

# DIRECT PLUG-IN TRANSFORMERS

SERIES 41

## DC OUTPUT MODELS

Model #	Output	UL	CSA	TUV	ETL	SAA
410405	4.5V DC 500 mA	•				
410406	4.5V DC 600 mA	•				
410407	4.5V DC 700 mA	•				
410408	4.5V DC 800 mA	•	•			
410408002NO	4.5V DC 800 mA	•				
410409	4.5V DC 900 mA	•				
410410	4.5V DC 1000 mA	•				
410506002NO	5.0V DC 600 mA	•				
410603	6.0V DC 300 mA	•		•		
410605	6.0V DC 500 mA	•		•		
410606	6.0V DC 600 mA	•		•		
410607	6.0V DC 700 mA	•		•		
410608	6.0V DC 800 mA	•	•	•		
410609	6.0V DC 900 mA	•		•		
410610	6.0V DC 1000 mA	•		•		
410704	7.0V DC 400 mA	•				
410704002NO	7.2V DC 400 mA	•				
410701002NO	7.5V DC 100 mA	•				
410705	7.5V DC 500 mA	•				
410706	7.5V DC 600 mA	•				
410707	7.5V DC 700 mA	•				
410708	7.5V DC 800 mA	•				
410903	9.0V DC 300 mA	•	•	•		•
410904	9.0V DC 400 mA	•	•	•		•
410905	9.0V DC 500 mA	•	•	•		•
410906	9.0V DC 600 mA	•	•	•		•
411005	10.5V DC 450 mA	•				
AD101505	11V DC 150 mA -12V DC 50 mA	•	•			
411103	11V DC 300 mA	•				
411201	12.0V DC 100 mA	•				
411203	12.0V DC 300 mA	•	•	•		•
411204	12.0V DC 400 mA	•	•	•		•
411205	12.0V DC 500 mA	•	•	•		•
4114036	14.0V DC 360 mA	•				
411502	15.0V DC 200 mA	•				
411503	15.0V DC 300 mA	•	•	•		
411504	15.0V DC 400 mA	•	•	•		
411602	16.0V DC 200 mA	•				
411603	16.0V DC 300 mA	•	•			
411802	18.0V DC 200 mA	•				
411803	18.0V DC 300 mA	•	•			
412101	21.0V DC 100 mA	•				
412102	21.0V DC 200 mA	•				
412401	24.0V DC 100 mA	•				
412402	24.0V DC 200 mA	•				

## AC OUTPUT MODELS

Model #	Output	UL	CSA	TUV
A410408	4V AC 800 mA	•		
A410409	4V AC 900 mA	•		
A410410	4V AC 1000 mA	•		
A410506	5V AC 600 mA	•		
A410507	5V AC 700 mA	•		
A410508	5V AC 800 mA	•		
A410509	5V AC 900 mA	•		
A410510	5V AC 1000 mA	•		
A410605	6V AC 500 mA	•		
A410606	6V AC 600 mA	•		
A410607	6V AC 700 mA	•		
A410608	6V AC 800 mA	•		
A410609	6V AC 900 mA	•		
A410610	6V AC 1000 mA	•		
A410612	6V AC 1200 mA	•		
A410705	7V AC 500 mA	•		
A410706	7V AC 600 mA	•		
A410707	7V AC 700 mA	•		
A410708	7V AC 800 mA	•		
A410709	7V AC 900 mA	•		
A410710	7V AC 1000 mA	•		
A410804	8V AC 400 mA	•		
A410805	8V AC 500 mA	•		
A410806	8V AC 600 mA	•		
A410807	8V AC 700 mA	•		
A410808	8V AC 800 mA	•		
A410809	8V AC 900 mA	•		
A410810	8V AC 1000 mA	•		
A4108507	8.5V AC 700 mA	•	•	
A4108510	8.5V AC 1000 mA	•	•	
A410904	9V AC 400 mA	•		
A410905	9V AC 500 mA	•		
A410906	9V AC 600 mA	•		
A410907	9V AC 700 mA	•		
A410908	9V AC 800 mA	•		
A410909	9V AC 900 mA	•		
A410910	9V AC 1000 mA	•		
A411003	10V AC 300 mA	•		
A411004	10V AC 400 mA	•		
A411005	10V AC 500 mA	•	•	
A411006	10V AC 600 mA	•		
A411007	10V AC 700 mA	•		
A411008	10V AC 800 mA	•		
A411009	10V AC 900 mA	•		
A411010	10V AC 1000 mA	•		

## AC OUTPUT MODELS

Model #	Output	UL	CSA	TUV
A411203	12V AC 300 mA	•	•	•
A411204	12V AC 400 mA	•		
A411205	12V AC 500 mA	•	•	•
A411206	12V AC 600 mA	•		
A411207	12V AC 700 mA	•		
A411208	12V AC 800 mA	•		
A411209	12V AC 900 mA	•		
A411210	12V AC 1000 mA	•		
A4113038	13V AC 380 mA	•		
A411502	15V AC 200 mA	•		
A411503	15V AC 300 mA	•		•
A411504	15V AC 400 mA	•		•
A411505	15V AC 500 mA	•		
A411506	15V AC 600 mA	•		
A411507	15V AC 700 mA	•		
A411508	15V AC 800 mA	•		
A411604	16V AC 400 mA	•		
A411802	18V AC 200 mA	•		
A411803	18V AC 300 mA	•	•	
A411804	18V AC 400 mA	•		
A411805	18V AC 500 mA	•		
A411806	18V AC 600 mA	•		
A412002	20V AC 200 mA	•		
A412003	20V AC 300 mA	•		
A412004	20V AC 400 mA	•		•
A412005	20V AC 500 mA	•		
A412006	20V AC 600 mA	•		
A412202	22V AC 200 mA	•		
A412203	22V AC 300 mA	•		
A412204	22V AC 400 mA	•		
A412205	22V AC 500 mA	•		
A412402	24V AC 200 mA	•		
A412403	24V AC 300 mA	•		
A412404	24V AC 400 mA	•		
A412405	24V AC 500 mA	•		
A412702	27V AC 200 mA	•		
A412703	27V AC 300 mA	•		
A412704	27V AC 400 mA	•		



E82456 LR52082

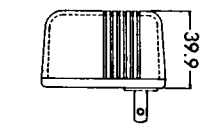
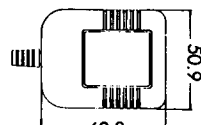
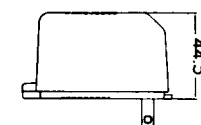
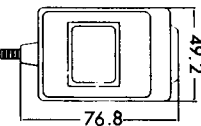
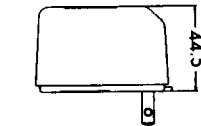
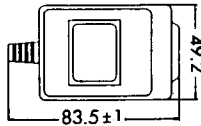


506677



S9152637  
S9152638

- UL LISTED FILE E82456
- ETL LISTED NO. 506677
- SAA CERTIFIED NO. SECV V920103
- CSA CERTIFIED FILE LR52082



NOTE: DIMENSIONS IN MILLIMETER SEE CONNECTORS PG. 15

# DIRECT PLUG-IN TRANSFORMERS

SERIES 48

## DC OUTPUT MODELS

Model #	Output	UL	CSA	TUV	ETL
480609	6V DC 900 mA	•			
480610	6V DC 1000 mA	•			
480611	6V DC 1100 mA	•			
480708	7.5V DC 800 mA	•			
480709	7.5V DC 900 mA	•			
480710	7.5V DC 1000 mA	•			
480711	7.5V DC 1100 mA	•			
480808	8V DC 800 mA	•			
480811	8V DC 1100 mA	•			
480906	9V DC 600 mA	•			
480907	9V DC 700 mA	•	•		
480908	9V DC 800 mA	•			•
480909	9V DC 900 mA	•			
480910	9V DC 1000 mA	•			
480911	9V DC 1100 mA	•			
481006	10V DC 600 mA	•			
481009	10V DC 900 mA	•			
481205	12V DC 500 mA	•	•		
481206	12V DC 600 mA	•			
481207	12V DC 700 mA	•			
481208	12V DC 800 mA	•			
481209	12V DC 900 mA	•			
481210	12V DC 1000 mA	•			
481211	12V DC 1100 mA	•			
481306	13V DC 600 mA	•			
481307	13V DC 700 mA	•			
481308	13V DC 800 mA	•			
481309	13V DC 900 mA	•			
481310	13V DC 1000 mA	•			
481504	15V DC 400 mA	•			
481505	15V DC 500 mA	•			
481506	15V DC 600 mA	•			•
481507	15V DC 700 mA	•			
481508	15V DC 800 mA	•			
481509	15V DC 900 mA	•			
481604	16V DC 400 mA	•			
481605	16V DC 500 mA	•			
481606	16V DC 600 mA	•			
481607	16V DC 700 mA	•			
481608	16V DC 800 mA	•			
481609	16V DC 900 mA	•			
481803	18V DC 300 mA	•			
481804	18V DC 400 mA	•			
481805	18V DC 500 mA	•			
481806	18V DC 600 mA	•			
481807	18V DC 700 mA	•			
481808	18V DC 800 mA	•			
482004	20V DC 400 mA	•			
482005	20V DC 500 mA	•			
482006	20V DC 600 mA	•			
482007	20V DC 700 mA	•			
482103	21V DC 300 mA	•			
482104	21V DC 400 mA	•			
482105	21V DC 500 mA	•			
482106	21V DC 600 mA	•			
482403	24V DC 300 mA	•			
482404	24V DC 400 mA	•			
482405	24V DC 500 mA	•			
482406	24V DC 600 mA	•			
4848025003CT	48V DC 250 mA	•			

## AC OUTPUT MODELS

Model #	Output	UL	CSA	TUV	ETL
A480610	6V AC 1000 mA	•			
A480612	6V AC 1200 mA	•			
A480614	6V AC 1400 mA	•			
A480615	6V AC 1500 mA	•			
A480620	6V AC 2000 mA	•			
A480625	6V AC 2500 mA	•			
A480630	6V AC 3000 mA	•			
A480710	7V AC 1000 mA	•			
A480712	7V AC 1200 mA	•			
A480714	7V AC 1400 mA	•			
A480715	7V AC 1500 mA	•			•
A480720	7V AC 2000 mA	•			
A480725	7V AC 2500 mA	•			
A480809	8V AC 900 mA	•			
A480810	8V AC 1000 mA	•			
A480812	8V AC 1200 mA	•			
A480814	8V AC 1400 mA	•			
A480815	8V AC 1500 mA	•			
A480817	8V AC 1700 mA	•			
A480820	8V AC 2000 mA	•			
A480824	8V AC 2400 mA	•			
A480908	9V AC 800 mA	•			•
A480910	9V AC 1000 mA	•			•
A480912	9V AC 1200 mA	•			•
A480913	9V AC 1300 mA	•			
A480914	9V AC 1400 mA	•			
A480915	9V AC 1500 mA	•			
A480917	9V AC 1700 mA	•			
A480920	9V AC 2000 mA	•			
A481008	10V AC 800 mA	•			
A481009	10V AC 900 mA	•			
A481010	10V AC 1000 mA	•			
A481012	10V AC 1200 mA	•			
A481014	10V AC 1400 mA	•			
A481016	10V AC 1600 mA	•			
A481018	10V AC 1800 mA	•			
A481206	12V AC 600 mA	•			
A481208	12V AC 800 mA	•			•
A481210	12V AC 1000 mA	•			•
A481212	12V AC 1200 mA	•			
A481214	12V AC 1400 mA	•			
A481215	12V AC 1500 mA	•			
A481216	12V AC 1600 mA	•			
A481308	13V AC 800 mA	•			
A4813038	13V AC 380 mA	•			
A4814038	14V AC 380 mA	•			
A481505	15V AC 500 mA	•			
A481506	15V AC 600 mA	•			
A481507	15V AC 700 mA	•			
A481508	15V AC 800 mA	•			

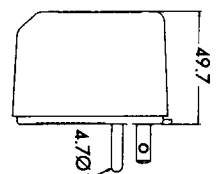
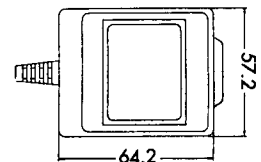
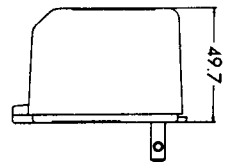
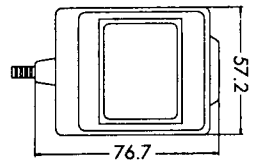
## AC OUTPUT MODELS

Model #	Output	UL	CSA	TUV	ETL
A481509	15V AC 900 mA	•			
A481510	15V AC 1000 mA	•			
A481512	15V AC 1200 mA	•			
A481605	16V AC 500 mA	•			
A481606	16V AC 600 mA	•			
A481607	16V AC 700 mA	•			
A481608	16V AC 800 mA	•			
A481609	16V AC 900 mA	•			
A481610	16V AC 1000 mA	•			
A481612	16V AC 1200 mA	•			
A481804	18V AC 400 mA	•			
A481805	18V AC 500 mA	•			
A481806	18V AC 600 mA	•			
A481807	18V AC 700 mA	•			
A481808	18V AC 800 mA	•			
A481809	18V AC 900 mA	•			
A481810	18V AC 1000 mA	•			
A482004	20V AC 400 mA	•			•
A482005	20V AC 500 mA	•			
A482006	20V AC 600 mA	•			
A482007	20V AC 700 mA	•			
A482008	20V AC 800 mA	•			
A482009	20V AC 900 mA	•			•
A482204	22V AC 400 mA	•			
A482205	22V AC 500 mA	•			
A482206	22V AC 600 mA	•			
A482207	22V AC 700 mA	•			
A482208	22V AC 800 mA	•			
A482209	22V AC 900 mA	•			
A482403	24V AC 300 mA	•			
A482404	24V AC 400 mA	•			
A482405	24V AC 500 mA	•			
A482406	24V AC 600 mA	•			
A482407	24V AC 700 mA	•			
A482408	24V AC 800 mA	•			
A482703	27V AC 300 mA	•			
A482704	27V AC 400 mA	•			
A482705	27V AC 500 mA	•			
A482706	27V AC 600 mA	•			
A482707	27V AC 700 mA	•			



- UL LISTED FILE E82456
- ETL LISTED NO. 506677
- GS LICENSE NO S9152637, S9152638
- CSA CERTIFIED FILE LR52082

POWER SUPPLY,  
CLASS 2  
TRANSFORMER  
BATTERY  
CHARGER (DC  
OUTPUT)



DIMENSIONS IN  
MILLIMETER  
SEE CONNECTORS  
PG. 15

# UNIVERSAL SWITCHING POWER SUPPLY



E138754



LR52082



S9171174  
S9171175  
S9171176

## FEATURES

- CONSTANT VOLTAGE OUTPUT
- REGULATED OUTPUT WITH LOW RIPPLE
- EFFICIENT AND LIGHT WEIGHT
- IMPACT RESISTANT THERMOPLASTIC ENCLOSURE
- ALLOWS FOR WORLD - WIDE PRODUCT UNIFORMITY
- WALL PLUG - IN AND DUAL CORD STYLE AVAILABLE
- PRIVATE LABEL MARKING AVAILABLE
- MODIFIED AND CUSTOMER DESIGNS ALSO AVAILABLE

## SUITABLE FOR:

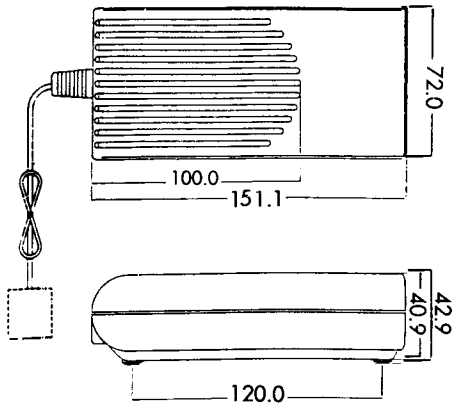
- COMPUTER AND COMPUTER PERIPHERALS
- MEDICAL EQUIPMENT
- MICROPROCESSING CONTROL SYSTEMS
- TELECOMMUNICATION PRODUCTS
- AUTOMATIC TELLER TERMINALS
- MULTIPLEXERS
- DATA COMMUNICATION PRODUCTS
- SECURITY SYSTEMS
- MODEMS

## GENERAL SPECIFICATIONS

Operating Voltage Range	90V AC - 264V AC	Temperature Coefficient	0.03% per °C for all output
Input Frequency Range	47 Hz - 63 Hz	Humidity	5-90% relative humidity for storage 10-80% relative humidity for operation
Max. Input Current	1.2 A RMS for 115V AC under full output load 0.6 A RMS for 230V AC under full output load.	Hold-up Time	15m/sec min at full load
Inrush Current	25 A max at 115V AC cold start 50 A max at 230V AC cold start	Transient Response	5% max on main output for a 50% load change from nominal load
Efficiency	70% min at full load (typical)	EMI (Electromagnetic Interference)	Meets conduction limits of FCC class B rules and VDE 0871 class B rules
Switching Frequency	50 KHz (typical)	Safety Requirements	Meets UL 1012, 1950 CSA 22.2 No. 22, 1402C Level 3 IEC 950 (EN 60950) & IEC 380 CEE Part 1 and Part 2 P
Over Voltage Protection	At 110-130% of rated voltage	Dielectric Withstanding Voltage	3750V AC for 1 min between input & output
Over Current Protection (short circuit protection)	Fold back current limiting and automatic recovery	Insulation Resistance	100 ohms min in between input/output and input/ground
Operating Temperature	0°C to 40°C		
Storage Temperature	-40°C to +80°C		

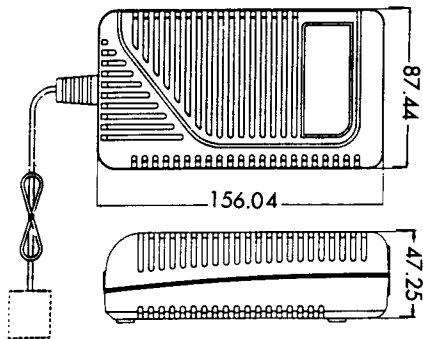
# UNIVERSAL SWITCHING POWER SUPPLY

## 25W SERIES



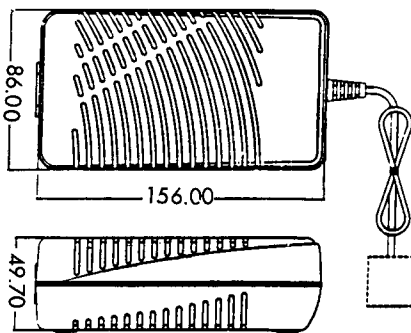
MODEL	OUTPUT VOLTAGE	LOAD		RIPPLE & NOISE (p-p)	LOAD REGULATION
		MIN.	RATED		
USPS2501	5.0V	0	5.0A	100mV	±4%
USPS2502	9.5V	0	2.5A	95mV	±4%
USPS2503	12.0V	0	2.0A	120mV	±4%
USPS2504	16.0V	0	1.5A	160mV	±4%
USPS2505	24.0V	0	1.0A	240mV	±4%
USPS2506	48.0V	0	0.5A	200mV	±4%
USPS2521	5.0V	0	2.5A	50mV	±3%
	12.0V	0	1.0A	120mV	±3%
USPS2522	5.0V	0	2.5A	50mV	±3%
	15.0V	0	0.8A	150mV	±3%
USPS2523	5.0V	0	2.5A	50mV	±3%
	24.0V	0	0.5A	240mV	±3%
USPS2601	12.5V	0	2.0A	150mV	±3%

## 30W SERIES



MODEL	OUTPUT VOLTAGE	LOAD		RIPPLE & NOISE (p-p)	LOAD REGULATION
		MIN.	RATED		
USPS3001	12.0V	0	2.50A	120mV	±4%
USPS3002	15.0V	0	2.00A	150mV	±4%
USPS3003	24.0V	0	1.25A	200mV	±4%
USPS3004	5.0V	0	6.00A	50mV	±4%
USPS3005	5.0V	0	3.00A	50mV	±4%
	12.0V	0	1.20A	120mV	±5%
USPS3006	16.0V	0	1.90A	160mV	±4%
USPS3007	48.0V	0	0.63A	240mV	±4%
USPS3008	5.0V	0	3.00A	50mV	±4%
	12.0V	0	1.00A	120mV	±5%
	-12.0V	0	0.30A	120mV	±5%

## 40W SERIES



MODEL	OUTPUT VOLTAGE	LOAD		RIPPLE & NOISE (p-p)	LOAD REGULATION
		MIN.	RATED		
USPS4001	5.0V	0	3.00A	50mV	±3%
	12.0V	0	1.80A	120mV	±5%
	-12.0V	0	0.30A	120mV	±5%
USPS4002	16.5V	0	2.50A	150mV	±3%
USPS4003	18.0V	0	2.30A	150mV	±3%
USPS4004	24.0V	0	1.70A	200mV	±3%
USPS4005	12.0V	0	3.40A	120mV	±3%
USPS4006	5.0V	0	6.00A	50mV	±3%
	24.0V	0	1.00A	240mV	±5%
USPS4007	5.0V	0	3.00A	50mV	±3%
	12.0V	0	1.00A	120mV	±5%
	24.0V	0	0.50A	240mV	±5%
USPS4008	48.0V	0	0.85A	240mV	±5%

FOR CONNECTORS,  
SEE PG. 15

# LINEAR POWER SUPPLY



E108269



LR52082



S9352276

## WALL PLUG-IN AND DESKTOP

Used in applications up to 16W including modems, telecom, computer peripherals, security systems, data communication products, microprocessing control systems, local area networks, test equipment and multiplexers, etc.

### GENERAL SPECIFICATIONS

- INPUT VOLTAGES ..... 105V AC - 129V AC or 220V AC - 240V AC
- INPUT FREQUENCY ..... 57 - 63 Hz
- VOLTAGE REGULATION ..... ±5%
- RIPPLE VOLTAGE ..... 50mV p-p AT FULL LOAD
- DIELECTRIC STRENGTH ..... 1500 V#RMS
- OVERLOAD PROTECTION ..... THERMAL SHUTDOWN
- STORAGE TEMPERATURE ..... -20°C to -85°C
- OPERATING TEMPERATURE ..... 0°C to 40°C
- HUMIDITY ..... 10% to 90%
- BURN-IN ..... 8 HRS
- INPUT 3 PRONG AVAILABLE

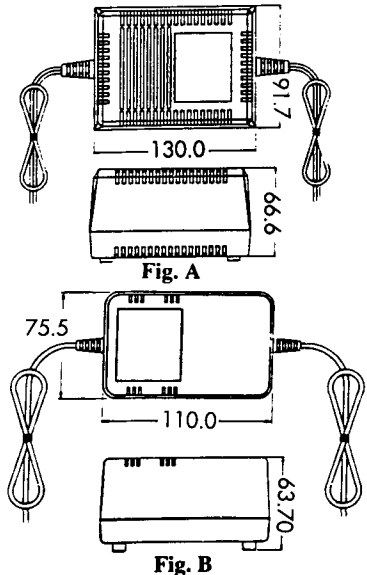
### FEATURES

- COST EFFECTIVE DESIGN
- LIGHT-WEIGHT. SCRATCH-RESISTANT COATING
- FULLY ISOLATED OUTPUT
- SHORT CIRCUIT AND OVER-CURRENT PROTECTION
- REGULATED, LOW RIPPLE
- OPTIONAL OUTPUT CORDS AND CONNECTORS
- ONE YEAR WARRANTY

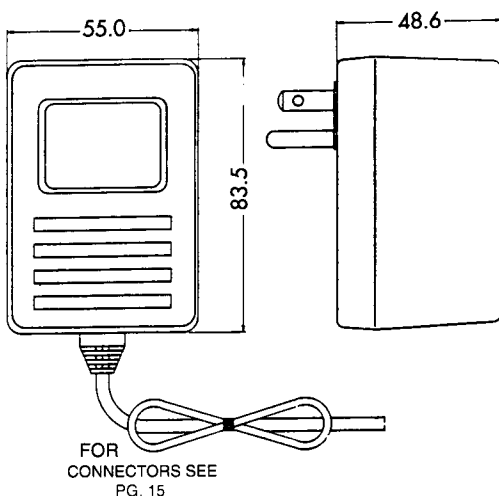
## DESKTOP TYPE LINEAR POWER SUPPLY

### OUTPUT RATING

MODEL NO.	OUTPUT #1	OUTPUT #2	OUTPUT #3	SAFETY			PHYSICAL FIGURE
				UL	CSA	TUV	
LPS-001	5VDC, 2.00AMP			•	•		A
LPS-002	9VDC, 1.00AMP			•	•		A
LPS-003	5VDC, 1.00AMP	12VDC, 0.2AMP	-12V DC, 0.2AMP	•	•	•	A
LPS-003A	5VDC 1.00AMP	9VDC, 0.2AMP	-9V DC, 0.2AMP	•	•		A
LPS-004	5VDC, 1.50AMP	12VDC, 0.2AMP	-12V DC, 0.2AMP	•	•		A
LPS-005	5VDC, 2.00AMP	12VDC, 0.2AMP	-12V DC, 0.2AMP	•	•		A
LPS-006	24VDC, 0.50AMP						B
LPS-008	5VDC, 0.60AMP	12VDC, 0.2AMP	-12V DC, 0.2AMP				A
LPS-012	8VDC, 2.00AMP			•	•		A
LPS-036	5VDC, 1.00AMP	12VDC, 1.0AMP					A
LPS-049	8VDC, 0.85AMP	12VDC, 0.2AMP	-12VDC, 0.2AMP				A
LPS-057	5VDC, 0.50AMP	12VDC, 0.2AMP					B



### DIMENSIONS



## WALL MOUNT TYPE

### OUTPUT RATING

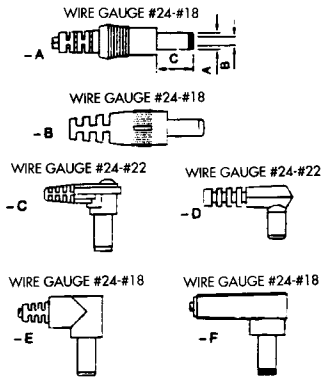
MODEL NO.	OUTPUT #1	OUTPUT #2	OUTPUT #3	SAFETY	
				UL	CSA
LPS-013	12V DC, 300mA	-12V DC, 300mA		•	•
LPS-014	5V DC, 700mA			•	•
LPS-015	6V DC, 600mA			•	•
LPS-016	8V DC, 500mA			•	•
LPS-017	9V DC, 500mA			•	•
LPS-018	12V DC, 400mA			•	•
LPS-019	24V DC, 250mA			•	•
LPS-028	12V DC, 300mA	-12V DC, 100mA			
LPS-038	5V DC, 900mA	-5V DC, 100mA			
LPS-040	27V DC, 5mA	9V DC, 530mA	-5V DC, 5mA		
LPS-070	12V DC, 200mA	5V DC, 300mA			
LPS-142	5V DC, 700mA	12V DC, 20mA	-12V DC, 20mA	•	

# OUTPUT CONNECTORS

## SWITCHING / LINEAR POWER SUPPLIES

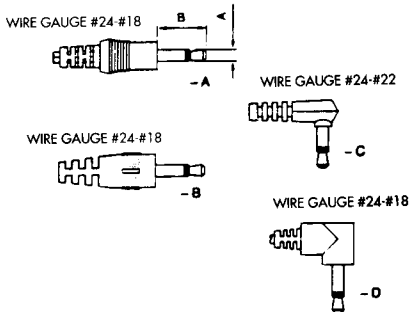
CONFIGURATION EXAMPLE PL-01-A-01 = PL-01 / PLUG A WITH DIM. ( 3.5 / 1.3 / 9.5)

### PL-01



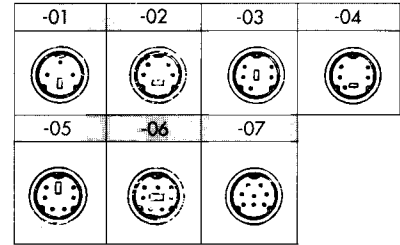
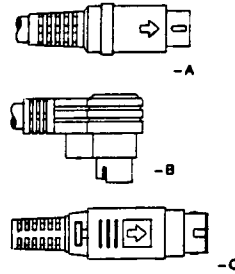
TYPE	A±0.1	B±0.1	C±0.5
-01	3.5	1.3	9.5
-02	3.5	1.3	11.5
-03	5.0	2.1	9.5
-04	5.0	2.1	11.5
-05	5.0	2.1	13.5
-06	5.0	2.5	9.5
-07	5.0	2.5	11.5
-08	5.0	2.5	13.5
-09	5.5	2.1	9.5
-10	5.5	2.1	11.5
-11	5.5	2.1	13.5
-12	5.5	2.5	9.5
-13	5.5	2.5	11.5
-14	5.5	2.5	13.5

### PL-02



TYPE	A	B±0.5
-01	2.5	11.5
-02	2.5	14.5
-03	2.5	15.5
-04	3.5	11.5
-05	3.5	14.5
-06	3.5	15.5

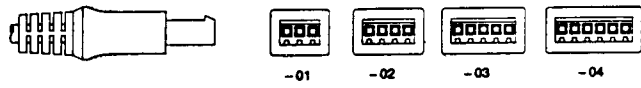
### PL-05 MINI PIN DIN PLUG



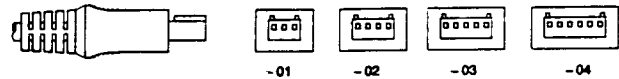
### PL-06 ASSEMBLY LOCKED TYPE



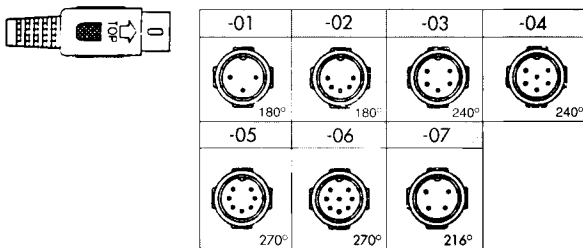
### PL-07 MOLEX 3.96mm



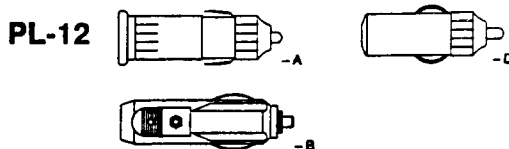
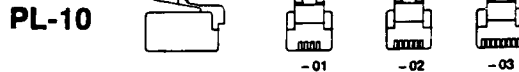
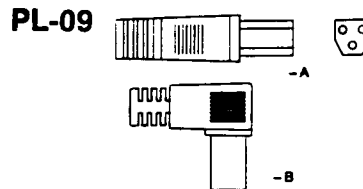
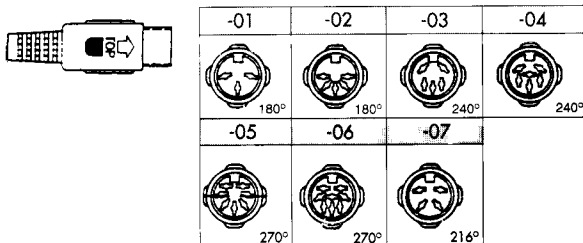
### PL-08 MOLEX 2.54mm



### PL-03 MALE OUTPUT CABLE PLUG (PIN)



### PL-04 FEMALE OUTPUT CABLE PLUG (SOCKETS)



### PL-13

