

# TAMURA WALL PLUG-IN and SCREW TERMINAL AC-AC TRANSFORMERS

120VAC, 60Hz and 220VAC, 50Hz

UL file nos. E82180

SP file nos. LR38236

file nos. 7969-3330 7969-3331

## FEATURES

- UL Class II Xfmrs - UL 1310.
- UL 544 Medical Capability.
- Thermal Overload Protection.
- 100% Testing.
- Transformer: 3 flange bobbin.
- US 3-Blade Ground Plug Available.
- Temp Range: 0 to +40°C.
- Case Temp Rise: ≤35°C.
- Oper Humidity: 10-90% RH.
- Material: Black ABS resin/UL 94-V0.
- No Audible Noise.
- Mounting Tab Available.

## AC-AC CLASS II TRANSFORMERS - 120VAC, 60Hz

UL/CSA MODEL No.	RATED OUTPUT		OUTPUT VAC <sup>1</sup>			UL <sup>2</sup>	CSA <sup>3</sup>	PLUG <sup>4</sup>	PRICE (qty)			
	VOLTS AC	ma AC	100% FL 108VAC	100% FL 132VAC	10% FL 132VAC				1-9	10-24	25-99	100up
310A0001	2.5	500	2.15	2.70	3.20	UL*	L	P	\$6.40	\$6.40	\$5.10	\$4.50
420A0003	9.0	800	7.75	9.20	10.90	UL*	L	M	8.90	7.60	7.10	6.20
825A0007G	9.0	1500	7.85	10.00	11.25	UL	L	I	16.60	14.10	13.30	11.60
420A0001	11.0	600	9.85	12.35	13.65	UL*	L	I	8.90	7.60	7.10	6.20
310A0002	12.0	110	11.00	13.70	15.30	UL*	C	I	6.70	5.70	5.40	4.70
825A0001	12.0	1300	10.50	13.50	15.90	UL	C	I	16.30	13.90	13.00	11.40
816A0001	14.0	500	12.60	15.85	17.75	UL	L	I	15.00	12.70	12.00	10.50
420A0002	14.0	770	12.25	15.50	18.30	UL*	L	I	8.90	7.60	7.10	6.20
420A0008	16.5	600	14.10	18.25	19.90	UL	C	I	8.90	7.60	7.10	6.20
818A0001	17CT	500	16.00	20.10	23.40	UL	L	V	11.90	10.10	9.50	8.30
825A0002	18.0	880	15.95	21.50	22.90	UL	C	I	16.30	13.90	13.00	11.40
420A0005	24.0	450	20.60	26.50	30.50	UL*	L	I	8.90	7.60	7.10	6.20
825A0003	24.0	660	21.00	26.60	30.25	UL	C	I	16.30	13.90	13.00	11.40

FIG 1



## SCREW TERMINAL TYPE - 120VAC, 60Hz.

820A0060-03	10.0	1200	8.60	11.40	12.75	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0050-03	10CT	1600	8.70	11.30	12.65	UL	L	SCRW	16.20	15.20	13.90	13.00
830A0060-03	10.0	2000	8.60	11.20	12.55	UL	L	SCRW	16.10	15.10	13.80	12.90
820A0061-03	12.0	1000	10.25	13.75	15.40	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0051-03	12CT	1330	10.40	13.60	15.25	UL	L	SCRW	16.20	15.20	13.90	13.00
830A0061-03	12.0	1600	10.55	13.75	15.30	UL	L	SCRW	16.10	15.10	13.80	12.90
820A0062-03	14.0	850	12.05	15.70	17.55	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0052-03	14CT	1140	12.00	15.60	17.45	UL	L	SCRW	15.40	14.50	13.20	12.30
830A0062-03	14.0	1430	11.90	15.50	17.35	UL	L	SCRW	16.10	15.10	13.80	12.90
820A0063-03	16.0	750	13.50	17.70	20.10	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0053-03	16CT	1000	13.80	18.05	20.05	UL	L	SCRW	15.40	14.50	13.20	12.30
830A0063-03	16.0	1250	13.65	17.90	19.90	UL	L	SCRW	15.30	14.40	13.20	12.20
820A0064-03	18.0	650	15.45	20.30	22.65	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0054-03	18CT	880	15.45	20.30	22.70	UL	L	SCRW	14.50	13.60	12.50	11.60
830A0064-03	18.0	1110	15.35	20.25	22.60	UL	L	SCRW	15.30	14.40	13.20	12.20
820A0065-03	20.0	600	17.00	22.35	25.10	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0055-03	20CT	800	17.10	22.40	25.10	UL	L	SCRW	14.50	13.60	12.50	11.60
830A0065-03	20.0	1000	16.95	22.30	25.05	UL	L	SCRW	15.30	14.40	13.20	12.20
820A0066-03	22.0	550	18.85	24.85	27.80	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0056-03	22CT	720	18.75	24.75	27.65	UL	L	SCRW	14.50	13.60	12.50	11.60
830A0066-03	22.0	900	18.70	24.70	27.60	UL	L	SCRW	15.30	14.40	13.20	12.20
820A0067-03	24.0	500	20.70	26.95	30.10	UL	L	SCRW	13.90	13.10	12.00	11.10
825A0057-03	24CT	660	20.60	26.85	29.95	UL	L	SCRW	14.50	13.60	12.50	11.60
825A0067-03	24.0	830	20.60	26.85	30.00	UL	L	SCRW	15.30	14.40	13.20	12.20

FIG 2 SCREW TERMINAL

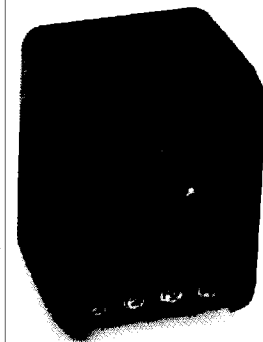
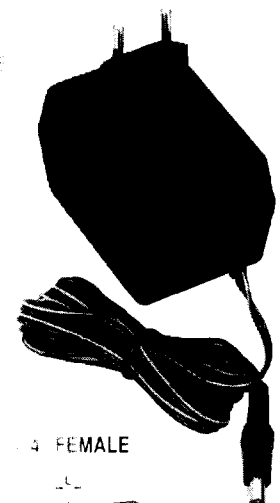


FIG 3 VDE



Note 1: Typ. output VAC for load & line shown.

Note 2: UL Notes: UL, UL1310 listed: UL\*, UL 1310 & UL1411 Xlfr.

Note 3: Complies (C) or listed (L) to CSA 22.2, No. 223/66.

Note 4: Screw term: 4ea #6-32; input gnd & output screw term gnd.

## AC-AC TRANSFORMER - 220VAC, 50Hz - VDE APPROVED

VDE MODEL NO.	RATED OUTPUT		OUTPUT VAC <sup>5</sup>			PLUG TYPE	PRICE (qty)			
	VOLTS DC	ma DC	100% FL 198VAC	100% FL 242VAC	10% FL 242VAC		1-9	10-24	25-99	100up
310F0006	9.5	150	9.40	11.80	18.50	I	\$9.70	\$8.20	\$7.80	\$6.80
310F0007	12.0	100	10.00	14.00	18.70	I	9.70	8.20	7.80	6.80

Note 5: Typical output voltage for % load (FL) and line (VAC) as indicated.

## MECHANICAL DIMENSION TABLE

SERIES PREFIX	LENGTH (L) mm (inch)	WIDTH (W) mm (inch)	HEIGHT (H) mm (inch)	WEIGHT gm (oz)	FIG No.
310A	60 (2.36)	45 (1.77)	35 (1.38)	150 (5.29)	1
310F	58 (2.28)	45 (1.77)	39 (1.54)	190 (6.70)	3
420A	61 (2.40)	55 (2.17)	41 (1.62)	270 (9.52)	1
816A	81 (3.19)	59 (2.32)	52 (2.05)	297 (10.49)	1
818A	51 (2.01)	60 (2.36)	50 (1.97)	330 (11.64)	1
820A-03	75 (2.95)	63 (2.48)	50 (1.97)	400 (14.13)	2
825A	82 (3.23)	60 (2.36)	55 (2.17)	490 (17.28)	1
825A-03	75 (2.95)	63 (2.48)	50 (1.97)	470 (16.58)	2
830A-03	75 (2.95)	63 (2.48)	50 (1.97)	530 (18.73)	2

## OUTPUT PLUG DIMENSIONS

PLUG TYPE	D1 (mm)	D2 (mm)	L (mm)	MALE/FEMALE	FIG No.
I	5.5	2.10	9.5	FEMALE	4
M	5.5	2.55	9.5	FEMALE	4
O	5.5	2.55	12.4	FEMALE	4
P	2.5	2.30	11.0	MALE	5
V	3 POS. AMP 102241-1 MOLDED				N/A

FIG 4 FEMALE

