

Tube Output (10 - 280 Watts) Easy Wire Secondary 1608A-1650A

Series

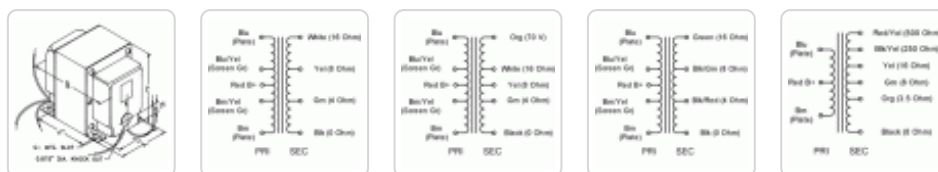
Push-Pull - HI-FI



Features

- NEW & improved version of our **1608-1650 Series** multiple secondary output transformers (re-designed secondaries for easy hook-up of secondary loads).
- Designed for push-pull tube output circuits.
- Units are designed to provide ample "headroom" at bass frequencies (note the weight of each transformer).
- All models have a secondary tapped for 4, 8 or 16 ohm outputs.
- Enclosed (shielded), 4 slot, above chassis Type "X" mounting.
- Manufactured with plastic coil forms for coil support and insulation.
- Frequency response 30 Hz. to 30 Khz. at full rated power (+/- 1 db max. - ref. 1 Khz) minimum.
- Insulated flexible leads 8" min.
- All units (except the **1650G**) include 40% screen taps for Ultra-Linear operation (if desired).
- Typical applications - Push-Pull: triode, Ultra-Linear pentode, pentode and tetrode connected audio output. The **1650G** does NOT have primary screen taps and will not support "Ultra-Linear" applications.

Gallery



| Part No. | Audio Watts (RMS) | Primary Impedance (Ohms) | Maximum DC Per Side | Secondary Impedance (Ohms) | Dimensions | | | | | G Slot | Weight (lbs.) |
|---------------|-------------------|--------------------------|---------------------|----------------------------|------------|------|------|------|-------------|-------------|---------------|
| | | | | | A | B | C | D | E +/- 1/16" | | |
| 1608A | 10 | 8,000 ct | 100 ma. | 4-8-16 | 2.50 | 2.75 | 3.06 | 2.00 | 1.69 | 0.20 x 0.38 | 2.5 |
| 1609A | 10 | 10,000 ct | 100 ma. | 4-8-16 | 2.50 | 2.75 | 3.06 | 2.00 | 1.69 | 0.20 x 0.38 | 2.5 |
| 1615A | 15 | 5,000 ct | 100 ma. | 4-8-16 | 2.50 | 3.25 | 3.06 | 2.00 | 2.19 | 0.20 x 0.38 | 3.25 |
| 1650E | 15 | 8,000 ct | 100 ma. | 4-8-16 | 2.50 | 3.25 | 3.06 | 2.00 | 2.50 | 0.20 x 0.38 | 3.5 |
| 1620A | 20 | 6,600 ct | 158 ma. | 4-8-16 | 2.50 | 3.50 | 3.06 | 2.00 | 2.44 | 0.20 x 0.38 | 3.5 |
| 1650FA | 25 | 7,600 ct | 128 ma. | 4-8-16 | 2.50 | 3.50 | 3.06 | 2.00 | 2.44 | 0.20 x 0.38 | 4 |
| 1645A | 30 | 5,000 ct | 128 ma. | 4-8-16-70V | 2.50 | 3.75 | 3.06 | 2.00 | 2.69 | 0.20 x 0.38 | 4.5 |
| 1650G | 35 | 6,600 ct | 200 ma. | 3.5/8/16/250/500 | 3.13 | 3.75 | 3.81 | 2.50 | 2.25 | 0.20 x 0.38 | 5 |
| 1650HA | 40 | 6,600 ct | 200 ma. | 4-8-16 | 3.13 | 4.00 | 3.81 | 2.50 | 2.69 | 0.20 x 0.38 | 6.5 |
| 1650KA | 50 | 3,400 ct | 318 ma. | 4-8-16 | 3.13 | 4.00 | 3.81 | 2.50 | 2.69 | 0.20 x 0.38 | 7 |
| 1650NA | 60 | 4,300 ct | 318 ma. | 4-8-16 | 3.13 | 4.25 | 3.81 | 2.50 | 2.94 | 0.20 x 0.38 | 8 |
| 1650PA | 60 | 6,600 ct | 200 ma. | 4-8-16 | 3.13 | 4.25 | 3.81 | 2.50 | 2.94 | 0.20 x 0.38 | 8 |
| 1650RA | 100 | 5,000 ct | 318 ma. | 4-8-16 | 3.75 | 4.25 | 4.56 | 3.00 | 3.06 | 0.20 x 0.38 | 12 |

| Part No. | Audio Watts (RMS) | Primary Impedance (Ohms) | Maximum DC Per Side | Secondary Impedance (Ohms) | Dimensions | | | | | | G Slot | Weight (lbs.) |
|----------|-------------------------|--------------------------------|---------------------------|----------------------------------|------------|------|------|------|----------------|-------------|-----------|------------------|
| | | | | | A | B | C | D | E +/- 1/16" | | | |
| 1650TA | 120 | 1,900 ct | 403 ma. | 4-8-16 | 3.75 | 4.50 | 4.56 | 3.00 | 3.31 | 0.20 x 0.38 | 14 | |
| 1650WA | 280 | 1,900 ct | 806 ma. | 4-8-16 | 4.38 | 7.50 | 5.25 | 3.50 | 5.88 | 0.20 x 0.38 | 28 | |

Suggested Tube Types

| Part No. | Audio Watts (R.M.S.) | Primary Impedance (Ohms) | Operation | Suggested Tube Types |
|----------|----------------------------|--------------------------------|-------------------------------|--|
| 1608A | 10 | 8,000 ct | Push-Pull (2 Tubes) | 6AQ5, 6V6, 6BQ5, EL84, SV83 |
| 1609A | 10 | 10,000 ct | Push-Pull (2 Tubes) | 6AQ5, 6V6, 6BQ5, EL84, SV83 |
| 1615A | 15 | 5,000 ct | Push-Pull (2 Tubes) | 2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6 |
| 1650E | 15 | 8,000 ct | Push-Pull (2 Tubes) | 6AQ5, 6V6, 6BQ5, EL84, SV83 |
| 1620A | 20 | 6,600 ct | Push-Pull (2 Tubes) | 6AQ5, 6L6, 6V6 |
| 1650FA | 25 | 7,600 ct | Push-Pull (2 Tubes) | 6L6GC, 6V6, 807, 5881, EL34 |
| 1645A | 30 | 5,000 ct | Push-Pull (2 Tubes) | 6L6GC, 6V6, 807, 5881, EL34 |
| 1650G | 35 | 6,600 ct | Push-Pull (2 Tubes) | 6L6GC, 807, 5881, EL34 |
| 1650HA | 40 | 6,600 ct | Push-Pull (2 Tubes) | 6L6GC, 807, 5881, EL34 |
| 1650KA | 50 | 3,400 ct | Push-Pull Par. (4 Tubes) | 6L6GC, 807, 5881, EL34, 6146B, 6550B |
| 1650NA | 60 | 4,300 ct | Push-Pull Par. (2 or 4 Tubes) | 6L6GC, 807, 5881, EL34, 6146B, 6550B, KT88 |
| 1650PA | 60 | 6,600 ct | Push-Pull (2 Tubes) | 6L6GC, 807, 5881, EL34, 6146B, 6550B, KT88 |
| 1650RA | 100 | 5,000 ct | Push-Pull Par. (2 or 4 Tubes) | 807, 5881, EL34, 6146B, 6550B, KT88 |
| 1650TA | 120 | 1,900 ct | Push-Pull Par. (4 or 6 Tubes) | 6L6GC, 5881, EL34, 6550B, KT88 |
| 1650WA | 280 | 1,900 ct | Push-Pull Par. (6 or 8 Tubes) | 6L6GC, 5881, EL34, 6550B, KT88 |

Notes: The above examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube types. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, class, B+, bias, operating points, etc.) will change optimum plate to plate load impedance. Only a few of the most popular tubes are shown. As more tubes become available we will add them to the list. A tube manual or tube manufacturer's technical data sheets should be consulted first, before making a decision on a proper output transformer.

Data subject to change without notice