

Variable Isolated AC Power Supply. Model 1653A is a compact, rugged unit.

- Variable isolated 0-150 VAC
- 2 A continuous output
- Displays voltage or current readings
- Isolation transformer to eliminate shock hazard while servicing "hot chassis" equipment

#### Model 1655A

Variable Isolated AC Power Supply. Model 1655A displays V, A, VA and leakage.

- Variable-isolated output—0-150VAC
- 3 A continuous, 4 A intermittent output
- Built-in soldering iron temperature control
- Expanded leakage scale
- lacktriangle Circuit breaker overload protection
- Displays V, A, VA, leakage

### Model 1604A

Isolation Transformer-Use Model 1604A for safe testing of transformerless equipment.

- Leakage: less than 0.1 mA
- Output Voltage: I 17-I24 V nominal (I20 V input)
- Output Current: I.25 A continuous

# Specifications

| ·IIIodel              |                                   |
|-----------------------|-----------------------------------|
|                       | 1604A                             |
| Isolation             | leakage less than 0.1 mA          |
| Output Voltage        | 117-124 V nominal (120 V input)   |
| Output Current        | 1.25 A continuous                 |
|                       | ( 2A intermittent)                |
| Power Requirements    | 120 VAC, 60 Hz, 175W              |
| Operating Temperature | 32° to 104°F (0° to +40°C)        |
| Dimensions (HxWxD)    | 4 x 4 x 5.5" (100 x 100 x 140 mm) |
| Weight                | 6 lbs. (2.7 kg.)                  |
|                       | 0.5 5 V 5 505 14/505 505 455      |

**One Year Warranty** 

| Specifications |        | models |
|----------------|--------|--------|
|                | 1.6530 | 16558  |

| Voltage Adjustment Rage       0-150 VAC with input at 120VAC         Output Isolation       Leakage less than 0.1 mA (25°C, 50% RH)         Current Range       0 - 2A       0 - 3A         Maximum Current (Isolated)       2A continuous (0-130V)       3A continuous, 4A intermittent (0-130V)         Peak Current (inrush)       N/A       30A max. (inrush limited to one cycle at30A)         Voltage/Current Sensing       Sine wave average, calibrated in RMS         Meter Scale       0-140 VAC       0 - 240VAC         0-2 VAC       0 - 480VAC (voltage set at 120)         Leakage       0 - 5000 μA (expanded in 100 - 500 μA portion, compressed to 5mA full scale)         Metering       3 1/2" overrange protected       4 1/2 multicolor scales, overrange protected         Meter Accuracy       ±5% of full scale       ±5% of full scale(volts andcurrent)         Soldering Iron Temp, Control       270 - 99% of power line (100W max)   |                       | 1653H                                  | 1655H                               |  |
|---|-----------------------|--|-------------------------------------|--|
| Current Range       0 - 2A       0 - 3A         Maximum Current (Isolated)       2A continuous (0-130V)       3A continuous, 4A intermittent (0-130V)         Peak Current (inrush)       N/A       30A max.         Woltage/Current Sensing       Sine wave average, calibrated in RMS         Meter Scale       0-140 VAC       0 - 240VAC         0-2 VAC       0 - 480VAC (voltage set at 120)         Leakage       (expanded in 100 - 500 μA portion, compressed to 5mA full scale)         Metering       3 1/2" overrange protected       4 1/2 multicolor scales, overrange protected         Meter Accuracy       ±5% of full scale       ±5% of full scale(volts and current)         ±5% at \$00μA(leakage)   | ljustment Rage        | 0-150 VAC with input at 120VAC         |                                     |  |
| Maximum Current (Isolated)       2A continuous (0-130V)       3A continuous, 4A intermittent (0-130V)         Peak Current (inrush)       N/A       30A max. (inrush limited to one cycle at30A)         Voltage/Current Sensing       Sine wave average, calibrated in RMS         Meter Scale       0-140 VAC       0 - 240VAC         0-2 VAC       0 - 480VAC (voltage set at 120)         Leakage       (expanded in 100 - 500 μA portion, compressed to 5mA full scale)         Metering       3 1/2" overrange protected       4 1/2 multicolor scales, overrange protected         Meter Accuracy       ±5% of full scale       ±5% of full scale(volts andcurrent)         ±5% at \$00μA(leakage)  | Isolation             | Leakage less than 0.1mA (25°C, 50% RH) |                                     |  |
| Peak Current (inrush)       N/A       30A max. (inrush limited to one cycle at30A)         Voltage/Current Sensing       Sine wave average, calibrated in RMS         Meter Scale       0-140 VAC       0 - 240VAC         0-2 VAC       0-480VAC (voltage set at 120)         Leakage       0 - 5000 μA (expanded in 100 - 500 μA portion, compressed to 5mA full scale)         Metering       3 1/2" overrange protected       4 1/2 multicolor scales, overrange protected scales, overrange protec | Range                 | 0 - 2A 0 - 3A                          |                                     |  |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  | m Current (Isolated)  | continuous (0-130V) 3A continu         | uous, 4A intermittent (0-130V)      |  |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$  | ırrent (inrush)       | 30A max.                               |                                     |  |
|   |                       | (inrush lim                            | nited to one cycle at 30A)          |  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | /Current Sensing      | Sine wave average, calibrated in RMS   |                                     |  |
| Leakage $\begin{array}{c} 0 - 5000  \mu\text{A} \\ \text{(expanded in 100 - 500 } \mu\text{A portion,} \\ \text{compressed to 5mA full scale)} \\ \hline \text{Metering} & 3  1/2"  \text{overrange protected} & 4  1/2  \text{multicolor scales, overrange protected} \\ \hline \text{Meter Accuracy} & \pm 5\%  \text{of full scale} & \pm 5\%  \text{of full scale(volts and current)} \\ & \pm 5\%  \text{at } 500 \mu\text{A}(\text{leakage}) \\ \hline \end{array}$   | icale                 | 40 VAC 0 - 240VA                       | AC                                  |  |
|   |                       | VAC 0- 480VA                           | AC (voltage set at 120)             |  |
| Compressed to 5mA full scale  | :                     | 0 - 5000                               | μA                                  |  |
| Metering     3 1/2" overrange protected     4 1/2 multicolor scales, overrange protected       Meter Accuracy     ±5% of full scale     ±5% of full scale(volts and current)       ±5% at \$00µA(leakage)   |                       | (expanded                              | in 100 - 500 $\mu$ A portion,       |  |
| Meter Accuracy $\pm$ 5% of full scale $\pm$ 5% of full scale(volts and current) $\pm$ 5% at 500 $\mu$ A(leakage)  |                       | compresse                              | ed to 5mA full scale)               |  |
| ±5% at 500µA(leakage)   | g                     | /2" overrange protected 4 1/2 mul      | ticolor scales, overrange protected |  |
|   | Accuracy              | % of full scale ±5% of fu              | ıll scale(volts andcurrent)         |  |
| Soldering Iron Temp. Control 70 - 99% of power line (100W may)  | -                     | ±5% at 5                               | 00μA(leakage)                       |  |
| Join lettip. Control   Joint lettip. Control  | ng Iron Temp. Control | 70 - 99%                               | of power line (100W max.)           |  |
| Power Requirements 120 VAC ±10%, 60 Hz 120 VAC ±10%, 60 Hz  | Requirements          | ) VAC ±10%, 60 Hz 120 VAC              | ±10%, 60 Hz                         |  |
| 300VA 600VA at Maximum Output   |                       | DVA 600VA at                           | Maximum Output                      |  |
| Dimensions 5.5 x 6.5 x 10.5" 10.5 x 5.7 x 12"   | ions                  | x 6.5 x 10.5" 10.5 x 5.7               | 7 x 12"                             |  |
| (HxWxD) (140 x 165 x 267 mm) (267 x 145 x 305 mm)   | 0)                    | 0 x 165 x 267 mm) (267 x 14            | 5 x 305 mm)                         |  |
| Weight 12 lbs. (5.5 kg) 22 lbs. (10 kg)   |                       | lbs. (5.5 kg) 22 lbs. (1               | 0 kg )                              |  |

**One Year Warranty** 

## **Specifications**

model

|  | IK-110                                 |  |  |
|--|--|--|--|
| Input Requirements                           | 105-130 VAC, 60 Hz.                    |  |  |
| OUTPUT POWER RATING                          |  |  |  |
| Direct                                       | 500 VA continuous. Isolated: 350 VA    |  |  |
|  | continuous, 500 VA intermittent.       |  |  |
| CONNECTIONS                                  |  |  |  |
| Direct                                       | Duplex outlet (3-conductor).           |  |  |
| Isolated                                     | Duplex outlet (3-conductor).           |  |  |
| GENERAL                                      |  |  |  |
| Regulation                                   | No load (350 VA), voltage change < 4%. |  |  |
| Isolation                                    | Complies—UL standard 1012, May 1977.   |  |  |
| Dimensions (HxWxD)                           | 5.1 x 5.5 x 8" (130 x 140 x 200 mm)    |  |  |
| Weight                                       | 11 lbs. (5 kg)                         |  |  |
| *Output voltages rated w/input at 120 volts. |  |  |  |

One Year Warranty

### Model TR-110

Dual Output Isolation - Use Model TR-110 for safe testing of transformerless equipment.

- Direct: Convenience duplex outlet provides line voltage for auxiliary equipment up to 500 VA
- Isolated: Two 3-position slide switches provide 9 combinations of voltage selection from 90 to 140 V\*, up to 350 VA continuous or 500 VA intermittent. Selfcontained power switch with pilot lamp.