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Z THURLBY THANDAR INSTRUMENTS

TS series Precision Laboratory DC Power Supplies



- Simultaneous metering of voltage & current via LCD meters
- True constant voltage or constant current operation
- Excellent stability, resolution and setting accuracy
- Remote sense facilities for high-current precision
- Precise control and monitoring of current limits
- Single, dual and triple output models available

Model Range:

TS3021S - Single output, 0 to 30V at 0 to 2A. TS3022S - Dual output , 2 x 0 to 30V at 0 to 2A.

The Thurlby Thandar TS series of laboratory bench power supplies has become highly regarded throughout the world for its performance and reliability. High resolution controls enable precise setting of voltage and current levels whilst high accuracy digital meters provide clear, unambiguous readings.

Digital accuracy and convenience

TS series units incorporate digital meters with 3.5 digit LCD displays to provide greater accuracy and resolution than other PSUs.

Separate meters are used for voltage and current, eliminating the need for meter function switches.

Greater resolution and control

The TS series sets the standard for simple and comprehensive control. Voltages are set with coarse and fine controls for speed with precision. Currents are set with a semi-logarithmic control for increased resolution at low currents.

With the output switch 'off' the current limit set point is displayed. With the output switch 'on' the actual output current flowing is displayed.

This invaluable feature allows delicate circuits to be protected by accurately setting the current limit level (down to a few milliamps if necessary) before connecting the circuit under test.

Constant voltage or constant current

TS series units can operate in constant voltage or constant current mode

Remote sense for high current precision

TS series units incorporate integrated band-gap reference diodes as the basis for stabilisation of both voltage and current.

Remote sense terminals enable the precision to be maintained at high currents by eliminating the effects of connection lead resistance.

Without remote sense, lead resistance ofjust a few tens of milliohms can seriously degrade regulation and produce misleading results. (Two ca bles ofjust 0.05 Ω each will drop a total of 0.3V at 3 Amps)

Safety and protection

TS series PSUs are designed and built to meet the latest safety and EMC requirements. All outputs are fully protected against short circuits, exter nal overvoltage and reverse voltage.

MAIN OUTPUTS Voltage Setting:

Current Setting: Output Mode:

Output Switch:

Output Terminals: Output Impedance:

Output Protection:

Load Regulation: Line Regulation: Remote Sense: Ripple and Noise: Transient Response: Temp. Coefficient: Meter Type:

Meter Resolution: Meter Accuracy:

GENERAL

Input Voltage: Input Voltage Range: Power Consumption: Operating Range: Storage Range: Electrical Safety: EMC: Size:

Internally set for 110, 120, 220, 240V; 50/60Hz. ± 10% of voltage setting.

By coarse and fine controls; resolution better

The outputs operate in constant current or con -

Isolates the output and permits voltage and cur rent limits to be set before connecting the load.

stant voltage mode with automatic cross-over.

4mm terminals on 19mm (.75') spacing.

Up to max. output voltage +20 Volts forward; diode clamped for reverse voltages at up to 3A.

<0.01 % of max. output for 50% load change.

<0.01 % of max. output for 10% line change.

<20usec to <50mV for 90% load change.

Independent autoranging 12.5mm 3.5-digit

Voltage - 10mV up to 20V, 100mV above 20V Current - 1mA up to 2A, 10mA above 2A.

LCDs for voltage and current indication.

Voltage - 0.2% of readin g + 1 digit.

Current - 0.5% of readin g + 1 digit.

Eliminates up to 0.5V drop per lead.

Typically <1mV rms.

Typically <100ppm/ °C.

than 5mV across the range.

By single logarithmic control.

CV - typically $<5m \Omega$ at 1kHz. CI - typically $>50k \Omega$.

- 150VA single units, 300VA dual/triple units. 5 °C to 40 °C, 20% to 80% RH.
- -20 °C to +60 °C. Complies with EN61010-1.
 - Complies with EN55011 and EN50082-1. 160(W) x 160(H) x 238mm(D), single unit 308(W) x 160(H) x 238mm(D), dual unit

Weight:

4.9kg single, 9.6kg dual.

Thurlby Thandar Instruments Ltd. operates a policy of continuous development and reserves the right to alter specifications without prior notice.

Note: This is a faxable data sheet, a colour brochure is also available.

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