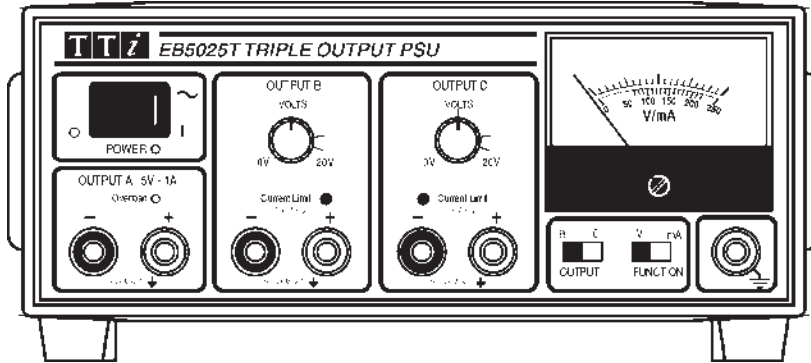




THURLBY THANDAR INSTRUMENTS

EB2025T

Low-cost triple output bench power supply



- Three independent outputs
- Twin variable outputs to 20V
- Analogue meter for voltage and current levels
- Fixed 5V logic level output
- All outputs fully isolated
- Good line & load regulation, low output noise
- Protection for short circuits, forward & reverse voltage
- Compact, lightweight design

GENERAL DESCRIPTION

The EB2025T is a general purpose bench power supply intended for applications requiring stable and controllable sources of DC voltage at low cost. Three independent and fully isolated outputs are provided.

Output A is a fixed 5 volt output with a maximum current capability of 1 amp and full short circuit protection.

Outputs B and C are independently adjustable from 0.3 volts up to 20 volts with a maximum current capability of 250 milliamps each. The built-in analogue meter can be set to measure voltage or current for either of these outputs.

Outputs B and C also offer fully variable control of the current limit point. This can be used to provide over-current protection for delicate circuits. Alternatively the outputs can be used as constant current sources with automatic crossover between constant voltage and constant current operation. The outputs can operate continuously into a short circuit at maximum current setting.

Because they are fully isolated, outputs B and C can be externally connected either in series or in parallel to provide voltages up to 40 volts or currents up to 500 milliamps.

All three outputs are protected against accidental connection of forward or reverse voltages.

VARIABLE OUTPUTS

Voltage Range:	0.3V to 20V minimum.
Current Range:	1mA to 250mA minimum.
Voltage Setting:	By single linear rotary control.
Current Setting:	By front panel screwdriver adjustment.
Operating Mode:	Constant voltage or constant current with automatic cross-over.
Output Protection:	Outputs will withstand forward voltages up to 30V. Reverse protection by diode clamp for currents up to 1A.
Load Regulation:	<0.2% of max. output for 90% load change.
Line Regulation:	<0.1% of max. output for 10% line change.
Ripple:	<2mV rms
Meter Accuracy:	± 5% of reading ± 0.5% of full-scale.

LOGIC OUTPUT

Voltage:	5V ± 0.2V
Current Limit:	1A minimum.
Output Protection:	Output will withstand up to 16V forward voltage. Diode clamp reverse protection for currents up to 1A.
Ripple:	<2mV rms.
Load Regulation:	<2% for a 90% load change.
Line Regulation:	<0.2% for a 10% line change.
Status Indication:	Overload lamp (current >1 Amp).

GENERAL

Output Terminals:	4mm terminals on 19mm (0.75") pitch.
AC Input:	230V AC or 115V AC ± 10%, 50/60Hz. Installation Category II.
Power Consumption:	50VA max.
Operating Range:	+5°C to +40°C, 20% to 80% RH.
Storage Range:	-40°C to +70°C.
Environmental:	Indoor use at altitudes up to 2000m, Pollution Degree 1.
Safety:	Complies with EN61010-1.
EMC:	Complies with EN50081-1 & EN50082-1.
Size:	220 x 82 x 230mm.
Weight:	1.8 kg.

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

Designed and built in the EEC by:



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