

ELECTRAEDGE

Cat No. 28-T0550

With timer

Output range

0-500 V 0-500 mA 0-250 W

- ✓ Four sets of output terminals
- ✓ Can be used in cold room or incubator (0° C to +50° C)
- ✓ Dual mode (CV & CC) with auto crossover
- ✓ Independent digital displays for mA, volts & timer (resolution 1 mA, 1 V)
- ✓ Output Voltage and Current can be set to any desired value within range
- ✓ Noise and vibration free
- ✓ Light weight Aluminium body with handles provided for portability



ElectraEdge with timer
Representational image

Features of this apparatus

Rugged

- Reduced probability of transistor burnout as MOSFETs with high voltage and current capacity used.
- Instantaneous voltage stabilization, input voltage spikes removed.
- Can be used in low voltage & high current applications
- Large operating temperature range (0° C to +50° C)

Convenience

- Small foot print due to the low EMI radiation of transformer.
- Voltage, current and timer readings can be viewed simultaneously due to the independent displays
- Four outputs in parallel
- Low heat dissipation, hence can be placed in a cold room or cold cabinet without affecting cabinet temp.

Safety

- No shock from accidental contact with single output due to high insulation between primary and secondary windings of transformers.
- Short circuit proof due to special motherboard design.
- CE certified
- Low EMI radiation

Economical

- Four apparatus of similar resistance can be run simultaneously.
- Reduced maintenance and repairing cost as low probability of burnouts and short circuits
- Less than 10% dissipation of energy as heat
- No moving parts which may need replacements

Ordering description

ElectraEdge (28-T0550): power supply, range 500 V, 500 mA, 250 W, constant voltage or constant current mode with MOSFETS, autocrossover, four outputs, independent digital displays for mA & V, with timer.

Technical specification

Feature	Electraprime (with timer) 28-T0550
Voltage Output	0-500V
Current output	0-500mA DC
Power (wattage)	250 W
Voltage adjustment	1 V increment via ten turn knob
Current adjustment	1 mA increment via one turn knob
Mode of regulation	CVCC with LED indication
Timer	Yes
Timer Display	Dual, 3 digit LED display

Time ranges	Select between nine time ranges 0 – 9.99/ 99.9/ 999 sec 0 – 9.59 min:sec, 99.9/ 999 min 0 – 9.59 hr:min, 99.9/ 999 hr
Programmable	Yes
Auto recovery on power failure Set point stays indefinitely	Yes
Timer recovery on power failure	Yes, memory retention for 10 years
Pause resume function key	Yes
Operating temperature range	0°C to +50°C
Voltage input	230V rms, 50 Hz, single phase
Voltage Variation (from nominal AC input voltage)	+10%, -15%
Frequency	47Hz to 53Hz
Transient suppression provided	Yes
Component details Mains switch Fuse Pause/ resume switch Timer ON/ OFF switch Timer reset switch Output socket Mains inlet	Illuminated rocker switch On front panel Rocker switch Rocker switch Push button (momentary) 4mm recessed female IEC C14
Output is fully isolated from input	Yes
Line regulation in CV mode in CC mode	Better than +/-0.25% +/-0.5%
Load regulation in: - no load to full load variation (in CV mode) - change in zero to max output (in CC mode)	+/-0.25% +/-0.5%
Ripple & noise in CV mode in CC mode	100mV rms max. 20Hz-20MHz 5mA rms max.
Automatic overload & short circuit protection with self-recovery	Yes
3.5 digit voltmeter and ammeter (independent display)	Yes
Isolation ~ between AC input & DC output terminals ~ between DC output terminals and chassis	2.1KV AC for 1 min 1.5KV AC for 1 min
Insulation ~ between output & chassis	> 10Mohms @ 250DC
Humidity tolerance	upto 95% (non condensing)
Cooling by normal convection, venting at the bottom and sides	Yes
Dimensions of the body [measurement excludes projecting knobs, handles and switches]	155 mm (w) x 250 mm (h) x 205 mm (d)