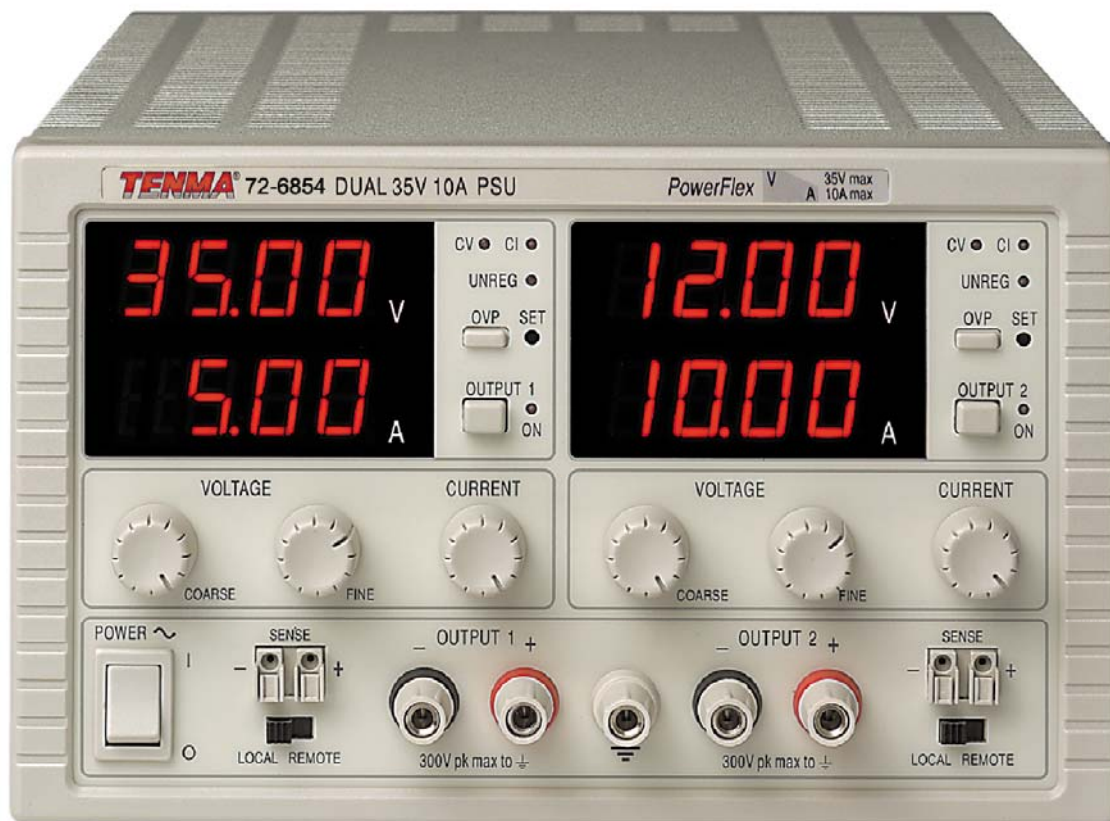


DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1369	A	RELEASED	JWM	1/30/03	HO	1/30/03	DJC	1/30/03



FEATURES:

- Dual Isolated Outputs, 0~35V, 0~10A, 175 Watts Max. per Output
- Variable Voltage/Current Combinations
- 5A Capability at 35 Volts Rising to 10A for 12 Volts and Below
- Separate Digital Voltage and Current Meters for Each Output
- High Setting Resolution, remote Sense, Variable OVP Trips
- Compact Half-Rck 3U Case Size for Bench or Rack Use

SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE: Dual-Output DC Power Supply				
	Jeff McVicker	1/30/03	SIZE	DWG. NO.	ELECTRONIC FILE	REV	
	CHECKED BY:	DATE:	A	72-6854	19C7715.dwg	A	
	APPROVED BY:	DATE:	SCALE: NTS	U.O.M.: Millimeters	SHEET: 1	OF 2	
	Daniel Carey	1/30/03					

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OUTPUT SPECIFICATIONS (each output)

Voltage Range: 0V to 35V.

Current Range: 0A to 10A.

Power Range: Up to 175W - see power envelope graph.

Operating Mode: Constant voltage or constant current with automatic cross-over and mode indication.

OVP Setting: Via screwdriver adjustable preset on front panel.

OVP range: 10% to 110% of maximum output voltage.

Voltage Setting: By coarse and fine controls.

Current Setting: By single logarithmic control.

Load regulation: <0.01% for a 90% load change.

Line regulation: <0.01% for a 10% line voltage change.

Output impedance: Typically <5m Ω in constant voltage mode. Typically >5k Ω in constant current mode, (voltage limit at max.).

Ripple & Noise: Typically <2mV rms, <20mV pk-pk, (20MHz bandwidth) both outputs fully loaded (7A @ 25V).

Transient Response: <2ms to within 100mV of set level for 90% load change.

Temp. Coefficient: Typically <100ppm/oC.

Output Protection: Forward protection by OVP trip; maximum voltage that should be applied to the terminals is 50V. Reverse protection by diode clamp for reverse currents up to 3A.

Protection Functions: Overvoltage trip.

Status Indication: LED indication of Output On, CV, CI and Power Limit.

Message on display for over-voltage trip.

Output Switch: Push-push switch operating electronic power control. Preset voltage and current are displayed when the output is off.

Output Terminals: 4mm terminals on 19mm (0.75") pitch. 15A max. rating

Sensing: Remote sensing via a front panel terminal block or local sensing (at output terminals). Selection by slide switch.

METER SPECIFICATIONS (each output)

Meter Types: Separate 4 digit meters for voltage and current with 14mm (0.56") LED displays. Reading rate 4/second.

Meter Resolutions: 10mV, 10mA.

Meter Accuracies: Voltage 0.2% \pm 1 digit. Current 0.5% \pm 1 digit.

GENERAL

AC Input: 115V AC, 50/60Hz.

Operating range \pm 14% of setting.

Installation Category II.

Power Consumption: 600VA max.

Operating Range: +5°C to +40°C, 20% to 80% RH.

Storage Range: -40°C to + 70°C.

Environmental: Indoor use at altitudes to 2000m, Pollution Degree 1.

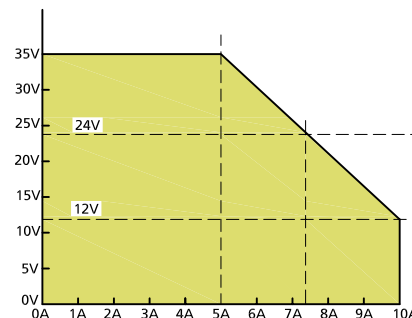
Safety: Complies with EN61010-1.

EMC: Complies with EN50081-1, EN50082-1 and EN61000-3-2.

Size: 210 x 130 x 350mm (WxHxD) half rack width x 3U height .

Weight: 5kg (11lb).

Options: Rack mounting kit.



POWER ENVELOPE (each output)

The maximum voltage settings is limited by the power envelope which is set to give 5A at 35V rising to 10A at 12V under all AC supply conditions (both outputs loaded).

At lower output voltages the power is restricted by the 10 amps current maximum