

DECKBLATT ZUM ORIGINAL-DOKUMENT DES HERSTELLERS

150W | DATENBLATT GERÄTE

HERSTELLER Delta Elektronik BV
PRODUKTSERIE EST150-Serie (3 Eingänge)

Ihr direkter Ansprechpartner für Delta-Produkte!

Die Ing. Erhard Fischer GmbH ist Ihr zuverlässiger Partner für die Produkte von Delta Elektronik. Wir bieten Ihnen nicht nur hochwertigen technischen Support, sondern auch kompetente Beratung und maßgeschneiderte Lösungen für Ihre individuellen Anforderungen.

Ob Standardprodukt, kundenspezifische Geräte oder Schaltschrankbau. Wir freuen uns, Sie bei Ihrer Lösungsfindung mit eingehender Kundenberatung kompetent unterstützen zu können.

Kontaktieren Sie uns für technische Beratung oder ein individuelles Angebot!

Wir freuen uns auf das Gespräch mit Ihnen.



IHR ANSPRECHPARTNER

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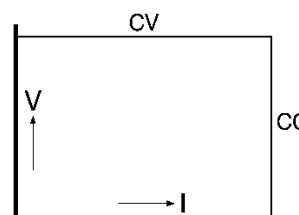
ING. ERHARD FISCHER GMBH

**Immer die passende Lösung für Industrie-
Stromversorgungen, Heizfolien & Messtechnik**



EST 150 - Series 150W Triple Output DC POWER SUPPLIES

Models	Voltage range	Current range
1)	0 - 20 V	0 - 2.5 A
2)	0 - 20 V	0 - 2.5 A
3)	0 - 10 V	0 - 5 A



- * 3 independent and floating outputs
- * 20 V outputs tracking or independent (switch selectable)

Features

- Very low output ripple and spikes
- EMC surpasses CE requirements:
low emission & high immunity
- Excellent dynamic response to load changes
- Protected against all overload and short circuit conditions
- Designed for a long life at full power

Functionalities

- 3 independent, floating outputs
- Dual voltage tracking or series tracking mode
- 3 output On / Off buttons
- Convection cooling
- Voltage and current control with 10 turn potentiometers

		10 V output	20 V output
Output voltage current		0 - 10 V 0 - 5 A	0 - 20 V 0 - 2.5 A
Input AC single phase, 48 - 62 Hz rated voltage range rated frequency Input current @ 230 VAC power factor, 110 / 230 VAC <i>full load</i> internal fuses standby input power (Vo=Io=0) standby input power (Vo=Vmax)		90 - 265 V 100 - 240 V 50 / 60 Hz 1 A 0.99 / 0.83 4 AT 12 W 15 W	
Efficiency AC 230 V input, full load AC 110 V input, full load		81 % 78 %	
Regulation			
Load 0 - 100% Line 90 - 265 V AC	CV CV	6 mV 0.2 mV	5 mV 0.5 mV
Load 0 - 100% Line 90 - 265 V AC	CC CC	1 mA 0.2 mA	0.5 mA 0.1 mA
Ripple + noise (full load) rms (BW=300 kHz) p-p (BW=20 MHz) rms (BW=300 kHz) p-p (BW=20 MHz)	CV CV CC CC	0.5 mV 8 mV 0.5 mA 4 mA	0.5 mV 8 mV 0.3 mA 1 mA
Temp. coeff., per °C	CV CC	5.10 ⁻⁵ 10.10 ⁻⁵	
Stability after 1 hr warm-up during 8 hrs tamb = 25 ± 1 °C, Vin = 230 VAC	CV CC	10.10 ⁻⁵ 10.10 ⁻⁵	
Tracking accuracy		0.5%	

Indicators (front panel)	CV-mode, CC-mode, output On/Off, Tracking On/Off
Controls (front panel)	Mains On/Off, CV- and CC-potmeters, Display-Settings button, Output On/Off, Tracking On/Off

	10 V output	20 V output
Recovery time recovery within di/dt of load step output voltage time, @ 50 - 100% load step max. deviation @ 230 VAC input voltage	100 mV 125 mA/μs 9 V 100 μs 200 mV	50 mV 75 mA/μs 18 V 100 μs 200 mV
Output impedance CV, 0-100 kHz	< 250 mOhm	< 250 mOhm
Pulsating load max. tolerable AC component of load current f > 1 kHz f < 1 kHz	2 A rms 5 A peak	2 A rms 2.5 A peak

Insulation input / output creepage / clearance input / case output / case	3750 Vrms (1 min.) 8 mm
	2500 Vrms 600 V DC
Safety	EN 60950 / EN 61010, outputs are SELV
EMC Generic Emission Generic Immunity	EN 61326-1 , class B equipment (for use in domestic establishments) EN 61326-1 , equipment for use in industrial and domestic establishments
Operating Temperature at full load	– 20 to + 50 °C derate output to 75% at 60 °C
Humidity	max. 95% RH, non condensing, up to 40 °C max. 75% RH, non condensing, up to 50 °C
Storage temperature	– 40 to + 85 °C
Thermal protection	Output shuts down in case of insufficient cooling
MTBF	500 000 hrs

Hold-Up time (230 VAC input) Vout = 100% , Iout = 100% Vout = 85% , Iout = 100% Vout = 100% , Iout = 50%	25 ms
	30 ms
	60 ms
Turn on delay (230 VAC input) after mains switch on	250 ms
Inrush current	10 A with NTC resistor 30 Ohms cold resistance

	10 V output	20 V output
Series operation max. total voltage	600 V	
Parallel operation max. total current	no limit	
Over Voltage Limit (fixed)	max. 13 V	max. 25 V
Potentiometers front panel control with knobs resolution	standard 0.03%	
Meters scale voltage scale current accuracy V-meter accuracy A-meter	3.5 digit 0 - 10.00 V 0 - 5.00 A 0.5% + 2 digits 1% + 2 digits	3.5 digit 0 - 20.0 V 0 - 2.50 A 0.5% + 2 digits 1% + 2 digits

Input Connector	Euro-connector at rear panel 10 Amp / 65 °C IEC320/C14, EN60320/C14
DC Output Terminals	4 mm safety sockets at front-panel
Cooling	Convection cooling
Enclosure degree of protection	IP20
Dimensions (h x w x d)	132 x 222 x 180 mm
Weight	3.5 kg

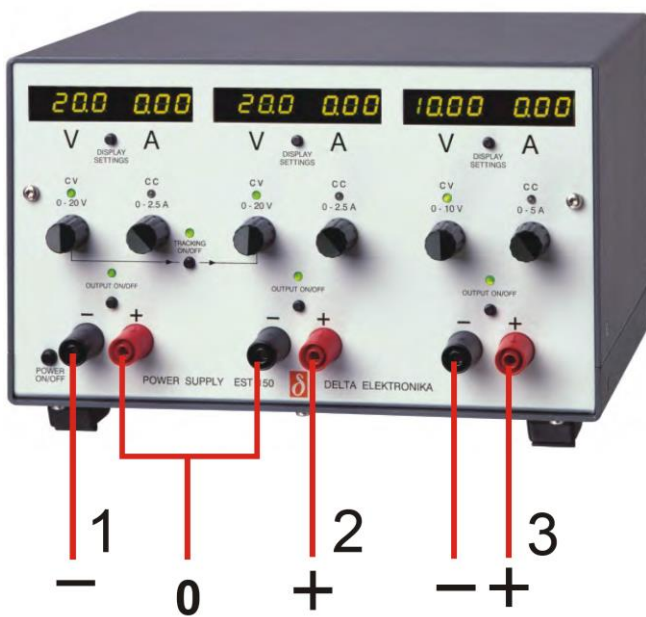
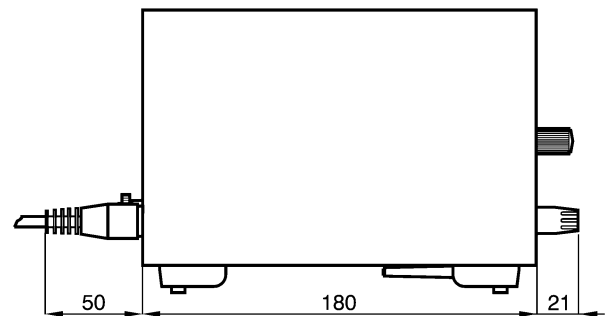
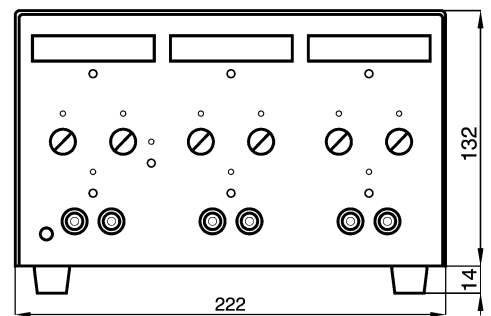
CV = Constant Voltage
CC = Constant Current

Specifications measured at $t_{amb} = 25 \pm 5$ °C and $V_{in} = 230$ VAC, 50 Hz unless otherwise noted.

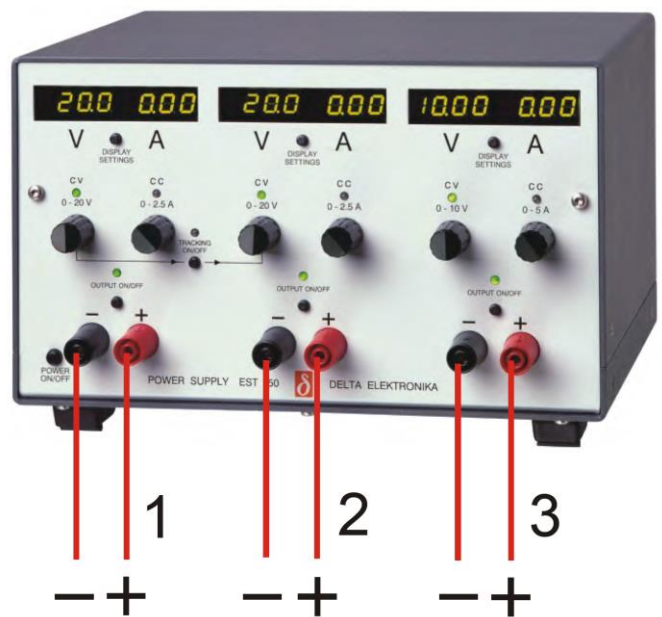


Linecord supplied

Input connector



20 V Outputs in **Tracking - Mode**, to create a dual voltage source. Voltage of Output (2) follows the setting for Output (1), current settings still independent.



Tracking - Mode off. Three independent voltage / current sources. Outputs are floating.