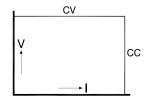
P.O. Box 27 4300 AA Zierikzee The Netherlands Tel. +31 111 413656 Fax. +31 111 416919 www.deltapowersupplies.com





ES 300 Series 300 watts DC POWER SUPPLIES

Models	Voltage range	Current range
ES 030-10	0 - 30 V	0 - 10 A



Features

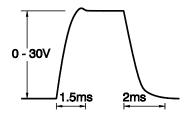
- Very low output ripple and spikes
- EMC surpasses CE requirements: low emissions & high immunity
- High programming speed
- Excellent dynamic response to load changes
- Protected against all overload and short circuit conditions

Functionalities

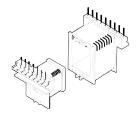
- Designed for a long life at full power
- Master/Slave parallel and series operation with voltage and current sharing
- Voltage and current control with 10 turn potentiometers
- 19" rack mounting or for laboratory use (feet included)
- Optional Remote Sensing

DELTA ELEKTRONIKA BV ES030-10

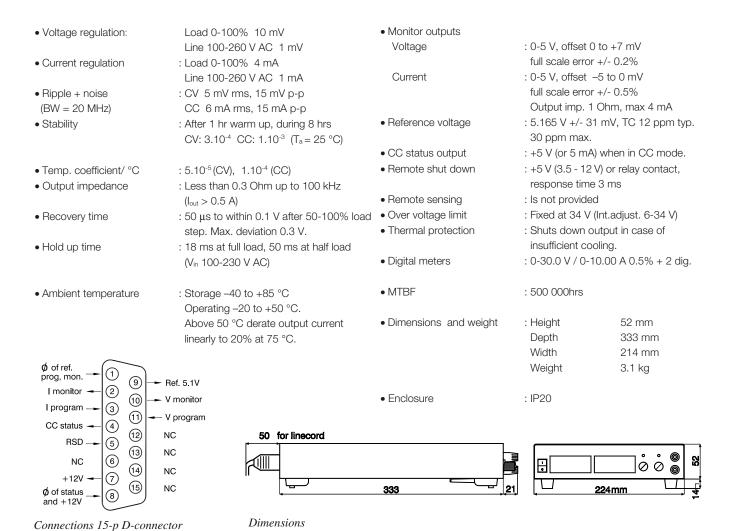
: AC 92-264 V 48-62 Hz : Normal and Master / Slave series Input voltage Series operation Fuse 5 A T operation is possible. For fast and easy operation the M/S - SERIES : 1.55 A at 230 V AC • Input current ADAPTER is recommended. 3.20 A at 115 V AC Power factor : Better than 0.97 • Parallel operation : No limitations. Normal and Master / Efficiency : 86% at 230 V AC, 82% at 115 V AC Slave parallel operation is possible. Inrush current : Limited with NTC resistor of 16 Ohms V and I control : 10-turn potmeters, res. 0.03%. • Programming inputs cold resistance Insulation Voltage : 0-5 V, offset -3 to +10 mV Input / output : 4 kV rms (1 min.), 8 mm cr./cl. full scale error +/- 0.2% Input / case : 2.5 kV rms (1 min.), 5 mm cr./cl. Current : 0-5 V, offset 0 to +20 mV : 600 V DC full scale error +/- 0.5% Output / case : EN 60950/ EN 61010 Input impedance 1 MOhm Safety • Progr. response time : Up 0-30 V 1 ms Down 30-5 V 2 ms • EMC: EN 61204-3 Power Supply Standard with load 3 Ohm EN 61000-6-3 (EN55022B) Generic **Emission** EN 61000-6-2 Generic Immunity



High programming speed of output voltage, 0 - 30 V in 1 ms (no electrolytic capacitors on output)



HF transformer has two isolated bobbins providing very safe 4 kV rms dielectric strength between input and output circuits.



ES030-10 DELTA ELEKTRONIKA BV

Typical Applications

- Test and measurement
- · Controlled battery charging
- Electronic Circuit Development
- Component device testing

- ATE in industrial production lines
- Medical research equipment
- · Laboratory analysis
- Accurate current sources

Available Options



Increased Output Power

The conservatively rated unit allows to deliver extra output with the same reliability.

At some derating, either the maximum output voltage or the maximum output current can be increased by about 10%.

• Order Code - P069



Sequencer

Arbitrary Waveform generator or standalone automation.
The sequencer is integrated in the Ethernet controller.

Order Code - P179



Rear Power Output and Remote Sensing

Output terminals at the rear panel instead of bind posts at the front panel, includes remote sensing.

Order Code - P185



19" Rack Mounting Adapter

Using the 19" mounting adapters, its possible to position the ES units in a

19" rack. Several configurations possible with multiple ES and / or PSC or ISO AMP modules.



Software control and Interfaces

Factory installed programming interfaces:

• Ethernet controller (incl.sequencer) - P179

• RS232 controller - P180

• PROFIBUS controller - P281

• CANBUS controller - P282

External programming interface modules:

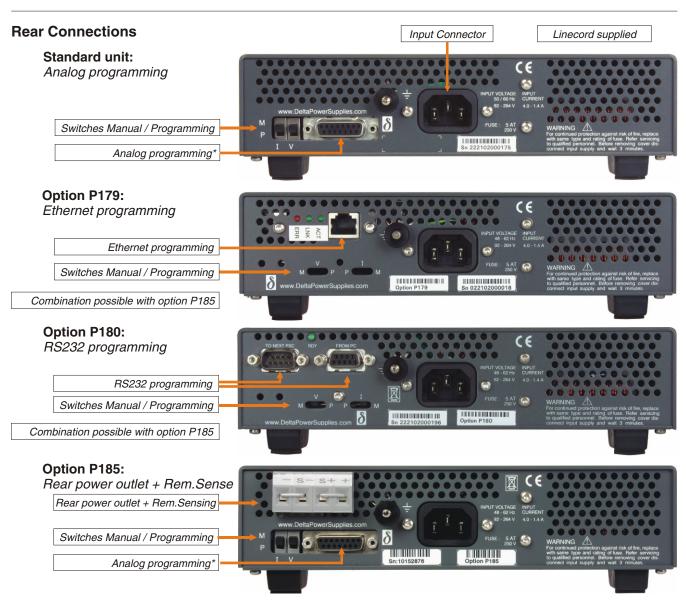
- IEEE488 controller module
- ISO AMP module

Notes:

- 1. Download the special datasheet about Battery Charging from www.DeltaPowerSupplies.com.
- 2. There is only room for one of the interfaces in a unit, see next page for configurations.
- Units with option P089 have the analog programming connector removed and can be combined with P180.
 These units cannot be combined with P179, P281 or P282.

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*Note: Units with Option P089 have the analog programming connector removed.