

# Statronics Power Supplies

Rifala Pty Ltd, ACN 002612473



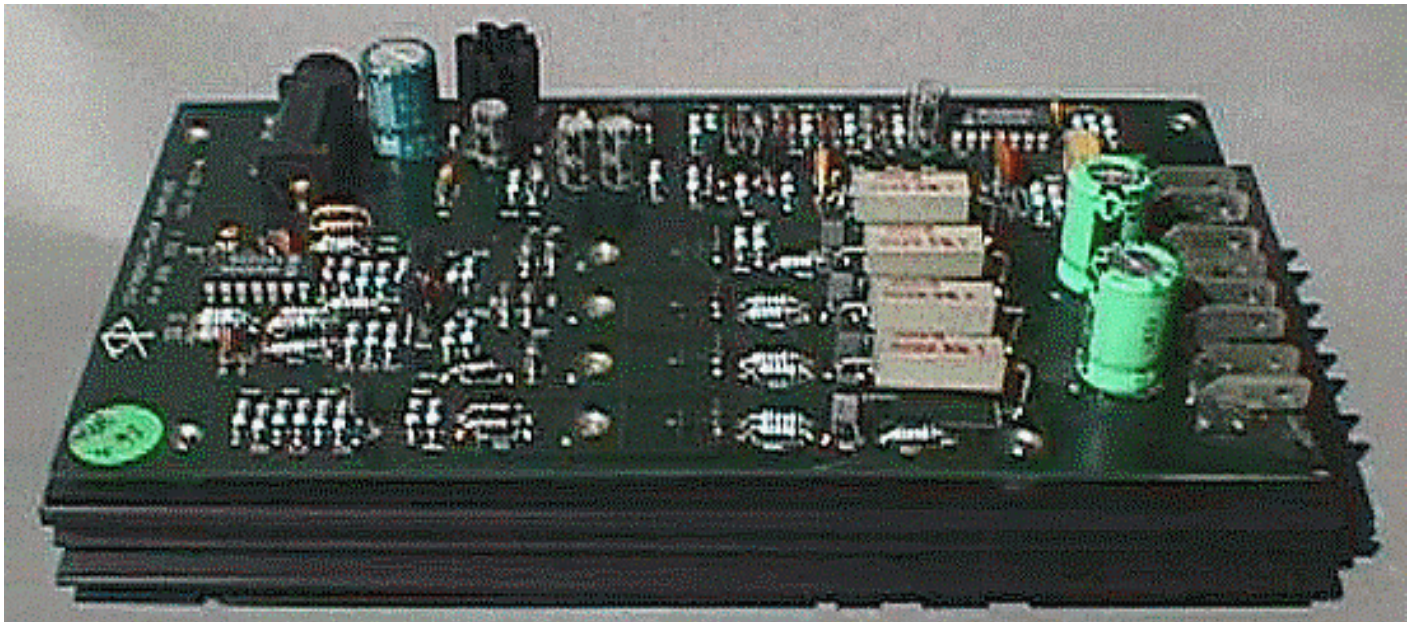
ISO 9001

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## FELIN: 20A LINEAR REGULATOR WITH VERY LOW DROPOUT VOLTAGE



**FELIN** is a very low dropout three terminal positive voltage regulator capable of supplying up to 20A over a 17.5V to 27.5V output range. The unit incorporates rugged power MOSFET design on a single printed circuit board, combined with foldback current limiting and overload protection, to ensure high reliability. Sufficient heatsinking is provided to dissipate up to 35W at ambient temperatures up to 40°C.

### Absolute Maximum Ratings

Input Voltage	32VDC
Operating Ambient Temperature	0°C to 105°C
Power Dissipation 0°C to 40°C (note 1)	35W
Derating above 40°C	-540mW/°C

**Note 1.** Maximum power dissipation is specified with the heatsink mounted in free air conditions with the fins vertical. For power dissipation in other orientations, contact the supplier.

## Electrical Characteristics

Parameter	Condition	Limits
Output Voltage	Adjustable	17.5V to 27.5V
Combined Line/Load Regulation	(Vin-Vout) > 1V 0A < Iout < 20A	< ±1%
Current Limit	Vout > 12V	23A ±2.0A
Short Circuit Current	Vout < 1V	5A typical (with time-out)
Ripple and noise	(Vin-Vout) > 1V 0A < Iout < 20A	< 5mV P-P 10Hz to 1MHz
Dropout Voltage	Iout = 20A	0.3V max.

## Mechanical Details

Dimensions (L x W x H)	191 x 112 x 53 mm (7.5 x 4.4 x 2.1 inches)
Connections	6.4 mm male quick connect spades
Weight	900 grams approx.
Mounting Points	4 holes for M3 thread cutting screw in each end of heat sink. Also complies with DIN 41494 mounting.

**WARRANTY:** Warranty on all production units is against faulty parts, design, or workmanship for a period of **5 years** from date of delivery, provided that the units are used as outlined in the specification, and excluding consequential loss. Freight to Statronics is payable by the client, while return freight is at Statronics' expense if a fault is detected and is covered by warranty.