

# IMARK

## PRODUCT DESCRIPTION

### 5020R POWER SUPPLY

240V AC - 13.8V DC 20 Amp Regulated Power Supply with Battery Back-Up facility  
Imark Stock # [602132](#)



#### Features:

- 13.8V DC 20 Amp continuous duty output
- No-Break Battery Change-Over Facility
- Automatic Relay Operated Battery Release
- Circuit Breaker Battery Protection
- Double Regulated Temperature Compensated Voltage Reference
- Over-Voltage Protection
- Over-Temperature Shut-Down Protection
- LED's indicate critical element status
- Outputs for Remote Monitoring
- EMC/EMI Approval

#### DESCRIPTION:

The IMARK 5020R Regulated Power Supply operates from a 240 Volt AC power source and provides a 13.8 Volt DC output to operate 12 Volt (nominal) equipment. The 5020R Power Supply includes over voltage protection, fold-back current protection, and short circuit protection, while large filter capacitors provide a low noise output. The 5020R is housed in a 3RU 19" rack mounting cabinet. The front panel includes LED indicators for critical status notification.

The IMARK 5020R Power Supply features a linear design and operates at greater than 50% efficiency. It provides 20 Amps continuous output power. The design is compact and includes a rugged all metal housing with a large aluminium extrusion on the rear panel to provide excellent heat dissipation. Connectors are provided on the rear panel for easy connection to the AC Input, and Load, Battery, and low current output, as well as a DB25 connector for remote monitoring purposes.

The IMARK 5020R includes a Battery Back-Up feature that automatically changes from power supply to battery depending on the state of the AC Input. It also includes a low voltage battery release to protect the battery and equipment in the event of a prolonged mains power failure.

The IMARK 5020R is supplied with a comprehensive operator's manual, a 1.8 metre AC Cable that plugs into the IEC socket on the rear panel during installation, Cable and Connectors for Load and Battery, and spare fuses.

SPECIFICATIONS:	
Input Voltage	240 Volts AC 50Hz (nominal), (Other Voltages available on request)
Input Current	3 Amps RMS Max @ 240 Volts AC.
Output Voltage	13.8 Volts DC
Output Current	20 Amps Continuous
Output Ripple	5mV RMS (Max) @ 20 Amps
Output Regulation	150mV DC (Max) from 0 - 20 Amps
Output Stability	±50mV (Max) after 15 minutes warm-up @ 13.8 Volts DC
Heatsink Temperature Rise	50°C @ 25°C Ambient
Battery Current Drain	250 mA (During Mains Failure with No Load) 30 mA (after Low Voltage Release)
Under-Voltage Battery Release	8 - 12 Volts Internally Adjustable
Operating Temperature Range	0°C to 60°C (output de-rated above 25°C)
Current Limit Setting	10 - 30 Amps Internally Adjustable
Fold-Back Protection	Internally Adjustable Short Circuit Current 5±0.5 Amps Nominal
Safe Area Current Limiting	Current Limit decreases by 1 Amp/20°C from 25°C

# **IMARK**

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Over-Voltage Crowbar Protection	10 - 18 Volts Internally Adjustable
Humidity	95% non-condensing
Unit Dimensions	483mm (W) x 450mm (D) x 132.5mm (H)
Shipping Dimensions	575mm (W) x 535mm (D) x 300mm (H)
Unit Weight	23.5Kgs
Shipping Weight	25Kgs
Inclusions	Manual, AC Cable, Load & Battery Cables and Connectors, Spare Fuses
Approvals	AS/NZS 1044:1995 Amendment 1:1997, CISPR 14:1995, CS910171V
Imark Stock #	602132
Options	