

# IMARK

## PRODUCT DESCRIPTION



### 5020BM POWER SUPPLY

240V AC - 13.8V DC 20 Amp Regulated Power Supply for Bench-Top Operation

Imark Stock # [602142](#)

#### Features:

- 13.8V DC 20 Amp continuous duty output
- Double Regulated Temperature Compensated Voltage Reference
- Meters for Output Voltage and Output Current
- Over-Voltage Protection
- Over-Temperature Shut-Down Protection
- LED's indicate critical element status
- Outputs for Remote Monitoring

#### DESCRIPTION:

The IMARK 5020BM 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 5020BM Power Supply includes over voltage protection, fold-back current protection, and short circuit protection, while large filter capacitors provide a low noise output. The 5020BM is housed in a 3RU size Bench-top cabinet. The front panel includes Meters for Output Voltage and Output Current, and LED indicators for critical status notification.

The IMARK 5020BM 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, Load, and Remote Voltage Sense output, as well as a DB25 connector for remote monitoring purposes.

The IMARK 5020BM includes an adjustable current limit feature that is ideal when using the 5020BM in a workshop testing environment.

The IMARK 5020BM 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 @ 25°C
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
Current Limit Setting Range	3 - 20 Amps Front Panel Adjustable
Output Voltage	4 - 17 Volts DC Front Panel Adjustable
Operating Temperature Range	0°C to 60°C (output de-rated above 25°C)
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
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 Kgs
Shipping Weight	24.5 Kgs
Inclusions	Manual, AC Cable, Load Cables and Connectors, Spare Fuses
Approvals	
Imark Stock #	602142