



# MAXIFLEX AC LF Power Supply Module

Model M1151C –100-240Vac/dc Logic Power Module with 24Vdc 1A Field Supply.

DATASHEET



## FEATURES

- Fits in PSU Slot of MAXIFLEX Base
- Supplies Logic Power to the MAXIFLEX System
- Contains an integrated 24Vdc 1Amp isolated field supply
- Removable terminals for easy maintenance
- Field Supply Overload Indication
- Power Supply Monitoring for reliable system operation
- CE certified for international application.

The Maxiflex M1151C Power Supply Module (AC LF PSU) is powered from 100-240Vac/dc nominal supply. It provides the primary logic power for all the other MAXIFLEX modules on the same I/O Base.

This module also integrates an auxiliary general purpose 24Vdc 1Amp isolated Power Supply which is useful for

powering system I/O. This auxiliary supply is equipped with an overload indicator.

Extensive power supply monitoring is performed, and a system shutdown will be performed if the input voltage goes out of limits or if any system malfunction occurs.

## SPECIFICATIONS

### AC Input

Voltage	85-264Vac (100-240Vac nominal) or 93-250Vdc
Frequency	dc/50/60Hz
Input Protection	Internal Safety Fuse in case of failure
Insulation Resistance	100MΩ min. at 500Vdc
Input Current at 100% load	< 1.1A rms at 115Vac < 0.5A rms at 230Vac
Switch-on inrush current	11A for < 10ms 80A for < 1ms
Efficiency	>80% at full load

### DC Outputs

+5V Logic Supply	5.1V ±2% 4.4A max (see Total Logic Power)
+12V Logic Supply	12V ±15% 1A max (see Total Logic Power)
Total Logic Power	27 Watts maximum
Field Supply	24V ±15% 1Amp max.

### Isolation

Test Voltage AC/Logic/Earth	1500Vac (100% tested)
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### Front Panel Indication

POWER (Green)	On = Outputs Healthy
O/LOAD (Red)	On = Field Supply Overloaded
S/DOWN (Red)	On = PSU Shutdown. Cycle power off for 5s to restore.

### Input/Output Terminations

Terminal Type	Screw clamp Plug-in Terminal Blocks
Wire Size	2.0mm <sup>2</sup> maximum For manageable wiring to the module, 1.0 mm <sup>2</sup> is recommended

### Environmental and Safety

Operating Temperature	-25°C to +60°C (-13°F to +140°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	95% max. at 40°C (104°F) non-condensing.
Insulation Resistance (100% tested)	100Mohm at 500Vdc input to outputs for 1s
Insulation Breakdown (100% tested)	3000Vac input to outputs for 1s
Environmental Protection	Electronics conformally coated

### Compliance to Standards

Safety	Conforms to IEC950; EN60950 Safety Class I (requires safety earth)
Emissions	EN55011 and EN50081-2:1994 Group 1, Class A
Immunity - ESD	IEC 61000-4-2:1995 level 3
Immunity - RF Fields	IEC 61000-4-3:1995 level 3
Immunity – Fast Transients	IEC 61000-4-4:1995 2kV – DC output 2kV – AC input
Supply Variations	IEC 61000-4-7:1991, 24Vdc ±15%

### Mass

Excluding Packaging	232g (8.2oz)
Including Packaging	320g (11.3oz)

### Ordering Information

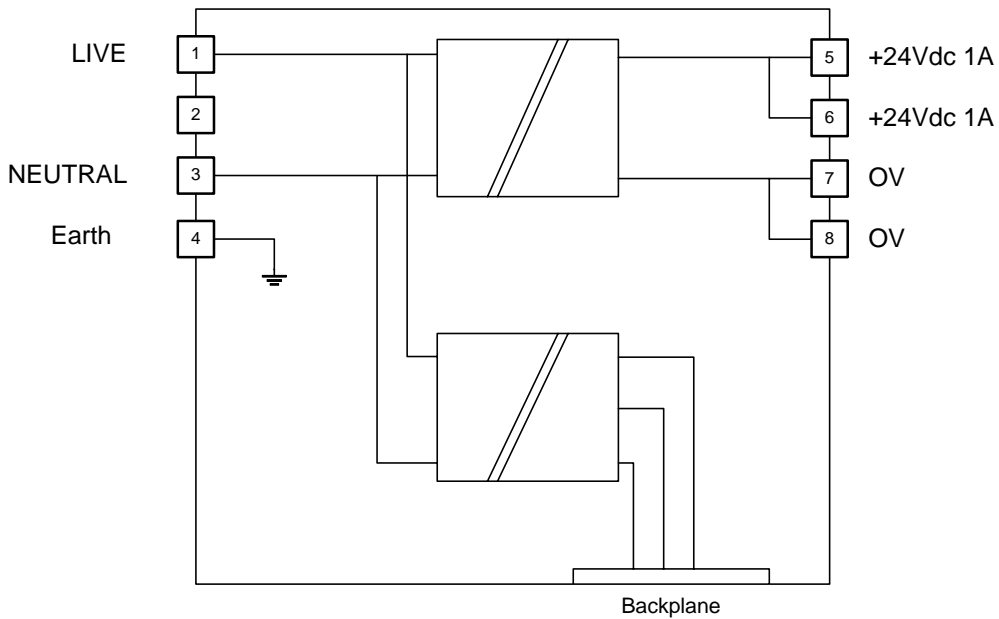
Model Name	Order Code
Maxiflex ACLF Module	M1151C



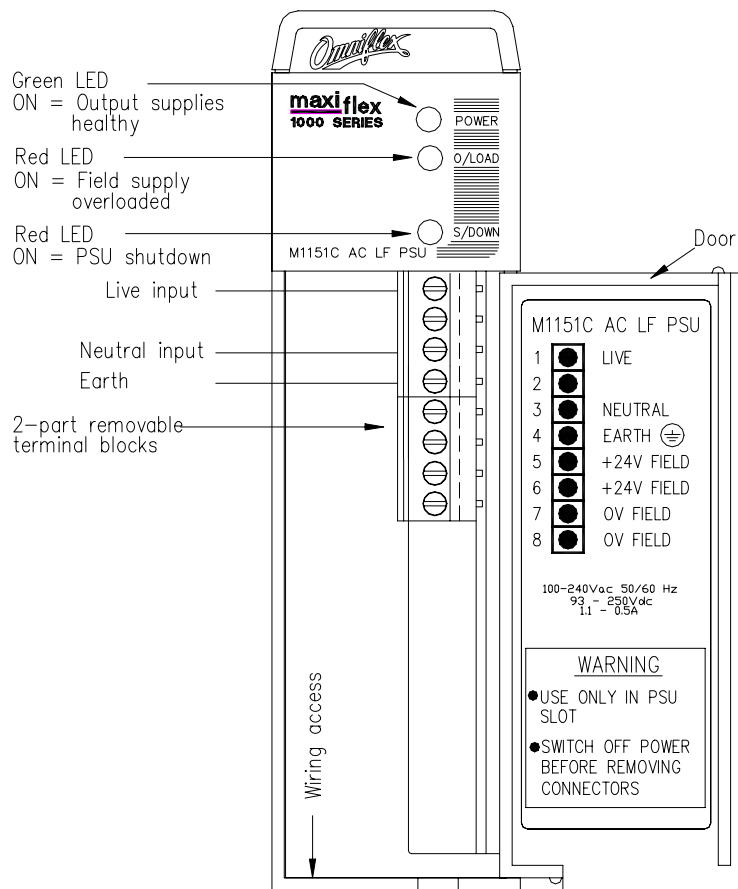
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## ELECTRICAL CONNECTIONS



## MECHANICAL ARRANGEMENT



Note: The LEDs can only be seen when illuminated,