1M150C series

Your ultimate power solution...150 Watts

OUTPUT SPECIFICATIONS
1. Current: 12V/10A; 24V/6.5A
2. Efficiency: >84% @ 115 Vac/60 Hz
3. Ripple & Noise: 120mV
4. Maximum Output Power vs. Ambient Temperature:
   - 50 Watts at 25°C
   - 40 Watts at 40°C
   - 35 Watts at 50°C

INPUT SPECIFICATIONS
1. Frequency: 47-63Hz
2. AC inrush current: Cold start, 40A @ 230Vac, 50Hz, 25°C degree
3. Efficiency
   - 12V: >84% @ 115 Vac/60 Hz
   - 24V: >85% @ 115 Vac/60 Hz

FEATURES
- High efficiency
- High reliability
- Protections: Over-voltage/Over-current/Over-power/Short-circuit
- Output reverse protection
- VAC input range selected by switch

Warranty: 3 years

1. Connector: 7P / 9.5mm pitch terminal block
2. DC adjust range: ±10% of rated output voltage
3. Setup time: <1000 ms, Rise time: <50 ms, Hold up time: >20 ms
4. Over Voltage Protection: 115%~135% of rated output
5. Over Power Protection: 110% ~ 200%, auto-recovery
6. Short Circuit Protection: Hiccup mode
7. Overshoot and Undershoot: autorecovery
8. Ripple And Noise
9. Input and Output
10. EMI/RFI: FCC Part 15J, Class A & CISPR 22 Class A
11. OSK: Output voltage, Overload & Growth
12. DC adjust
13. EMTI: EN61000-4-5
14. EFT: EN61000-4-4
15. Surge Immunity
16. Electrostatic Discharge: (ESD)
   - ±4kV Contact discharge
   - ±8kV Air discharge
   - ±2kV (L-L)
   - ±2kV (L-PE)

ENVIRONMENTAL
1. Operating temperature: -10°C to +50°C (refer to derating curve)
2. Operating humidity: 10% to 90% RH, non-condensation
3. Storage temperature: -20°C to +80°C
4. Storage humidity: 5% to 95% RH, including condensation
5. Vibration operation: 10 to 250Hz, 0.25G p-p, 3 axes, 15 min sweep
6. Electrostatic Discharge (ESD): ±4kV, ±8kV

1M1150W SERIES MECHANICAL SPECIFICATIONS

MODEL LISTING
- MODEL
  - FS-15012-1M
  - FS-15024-1M

OUTPUT
- VAC Input
  - 12V: 110V~120V AC
  - 24V: 220V~240V AC

APPLICATION INFORMATION
- Factory Automation
  - 1. Process Control
  - 2. NC-Machining/Automotive
  - 3. Packaging Equipment
  - 4. Materials Handling
  - 5. Chemical Processing/Robotics
  - 6. Computer equipment
- Led application
  - 1. Led Digital Display
  - 2. Led Monitor
  - 3. Led Lighting
  - 4. Other Application

MAXIMUM OUTPUT POWER VS.

Electromagnetic Compatibility
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-11
- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-11

Oscilloscope
- 20 MHz

Test & Measurement
- 1. Burn-in Test
- 2. Automated Test
- 3. Instrumentation
- 4. Detection Measurement

Potrans Electrical Corporation

Factory Automation
- 1. Process Control
- 2. NC-Machining/Automotive
- 3. Packaging Equipment
- 4. Materials Handling
- 5. Chemical Processing/Robotics

Test & Measurement
- 1. Burn-in Test
- 2. Automated Test
- 3. Instrumentation
- 4. Detection Measurement

Led application
- 1. Led Digital Display
- 2. Led Monitor
- 3. Led Lighting
- 4. Other Application

And Other Application

1. Connector: 7P / 9.5mm pitch terminal block
2. DC adjust range: ±10% of rated output voltage
3. Setup time: <1000 ms, Rise time: <50 ms, Hold up time: >20 ms
4. Over Voltage Protection: 115%~135% of rated output
5. Over Power Protection: 110% ~ 200%, auto-recovery
6. Short Circuit Protection: Hiccup mode
7. Overshoot and Undershoot: autorecovery
8. Ripple And Noise
9. Input and Output
10. EMI/RFI: FCC Part 15J, Class A & CISPR 22 Class A
11. OSK: Output voltage, Overload & Growth
12. DC adjust
13. EMTI: EN61000-4-5
14. EFT: EN61000-4-4
15. Surge Immunity
16. Electrostatic Discharge: (ESD)
   - ±4kV Contact discharge
   - ±8kV Air discharge
   - ±2kV (L-L)
   - ±2kV (L-PE)

ENVIRONMENTAL
1. Operating temperature: -10°C to +50°C (refer to derating curve)
2. Operating humidity: 10% to 90% RH, non-condensation
3. Storage temperature: -20°C to +80°C
4. Storage humidity: 5% to 95% RH, including condensation
5. Vibration operation: 10 to 250Hz, 0.25G p-p, 3 axes, 15 min sweep
6. Electrostatic Discharge (ESD): ±4kV, ±8kV

1M1150W SERIES MECHANICAL SPECIFICATIONS

MODEL LISTING
- MODEL
  - FS-15012-1M
  - FS-15024-1M

OUTPUT
- VAC Input
  - 12V: 110V~120V AC
  - 24V: 220V~240V AC

APPLICATION INFORMATION
- Factory Automation
  - 1. Process Control
  - 2. NC-Machining/Automotive
  - 3. Packaging Equipment
  - 4. Materials Handling
  - 5. Chemical Processing/Robotics

Test & Measurement
- 1. Burn-in Test
- 2. Automated Test
- 3. Instrumentation
- 4. Detection Measurement

Led application
- 1. Led Digital Display
- 2. Led Monitor
- 3. Led Lighting
- 4. Other Application

And Other Application

1. Connector: 7P / 9.5mm pitch terminal block
2. DC adjust range: ±10% of rated output voltage
3. Setup time: <1000 ms, Rise time: <50 ms, Hold up time: >20 ms
4. Over Voltage Protection: 115%~135% of rated output
5. Over Power Protection: 110% ~ 200%, auto-recovery
6. Short Circuit Protection: Hiccup mode
7. Overshoot and Undershoot: autorecovery
8. Ripple And Noise
9. Input and Output
10. EMI/RFI: FCC Part 15J, Class A & CISPR 22 Class A
11. OSK: Output voltage, Overload & Growth
12. DC adjust
13. EMTI: EN61000-4-5
14. EFT: EN61000-4-4
15. Surge Immunity
16. Electrostatic Discharge: (ESD)
   - ±4kV Contact discharge
   - ±8kV Air discharge
   - ±2kV (L-L)
   - ±2kV (L-PE)
1M150C series

Your ultimate power solution.

150 Watts

Output Specifications
- Continuous: 150W, 12V out, 12.5A
- Efficiency: >84% at 120V/60Hz
- Ripple and Noise: 120mV peak-to-peak, 240mV peak-to-peak

Features
- High efficiency
- High reliability
- Protections: Over-voltage/over-current/over-power/short-circuit
- Output reverse protection
- Input range selected by switch
- 100% full load burn-in test
- EMI/RFI: FCC Part 15(j), Class A & CISPR 22 Class A

Inputs Specifications
- Input range: 90~132Vac/180~264Vac
- Frequency: 47~63Hz
- AC inrush current: Cold start, 40A @ 230Vac, 50Hz, 25°C
- Efficiency: >85% @ 120V/60Hz

Environmental
- Operating temperature: -10°C to +50°C (refer to derating curve)
- Operating humidity: 10% to 90% RH, non-condensation
- Storage temperature: -20°C to +80°C
- Storage humidity: 5% to 95% RH, including condensation
- Vibration: 10 to 250Hz, 0.25G p-p, 3 axes, 15 min sweep
- Electrostatic Discharge (ESD): +/-4kV Contact discharge, +/-8kV Air discharge
- Fast Transient Immunity (EFT): +/-2kV (L-L), +/-2kV (L-PE)

Maximum Output Power vs. Ambient Temperature

USA Distributor: Power277, LLC - 9360 W. Flamingo Road #110-485, Las Vegas, NV 89147 - Tel: 702-987-3111 - Fax: 702-395-5720