

## **M4916 SERIES**

*AC/DC POWER SUPPLY*



### **PRODUCT HIGHLIGHTS**

- **CE MARKING CONFIGURATIONS (IEC 60939-3)**
- **AC INPUT: 85-265VAC**
- **SINGLE PHASE**
- **50/60/400HZ**
- **AC OUTPUT: FOLLOWING INPUT**
- **10A MAX CURRENT**
- **HIGH DENSITY**
- **COMPACT**

## M4916 SERIES EMI LINE FILTER

### Applications

Military (Airborne, Mobile, Ground-Fix), Ruggedized, Telecom, Industrial

### Special Features

- Universal AC Input
- Improves EMI performance
- CE Marking Configurations (IEC 60939-3)
- Intended for use with Single-Phase PFC AC/DC power supplies M3916 and M1986.

### Electrical Specifications

#### AC Input

##### Option 1:

85 to 265 VAC ; 50/60Hz  
Single-phase, 10A max

##### Option 2:

103 to 127 VAC ; 400Hz  
Single-phase, 10A max

#### AC Output

Following input

#### Isolation

Input to Case: 2500 V<sub>DC</sub>  
Output to Case: 2500 V<sub>DC</sub>

### Environmental Conditions

Designed to Meet MIL-STD-810F

#### Temperature

Methods 501.4 & 502.4  
Operating: -40°C to +85°C (at baseplate)  
Storage: -55°C to +125°C (ambient)

#### Vibration

MIL-STD 810F, Method 514.5, Procedure I, Category 24, General minimum integrity exposure, IAW Figure 514.5C-17, 1 hour per axis

#### Altitude

Method 500.4  
Procedures I – Storage/Air transport:  
up to 70,000 ft. (non-operational)  
Procedure II – Operation/Air Carriage:  
up to 40,000 ft. (operational)

#### Shock

Method 516.5  
Procedure I  
Functional shock, 40g, 15-23ms, Terminal peak  
Sawtooth shock pulse

#### Humidity

Method  
507.4 Up to  
95% RH

#### Salt Fog

Method 509.4

### Reliability

150,000 hours, calculated IAW MIL-HDBK-217F Notice 2 at +85 °C baseplate, Ground Fixed environment.

### Environmental Stress Screening (ESS)

Including random vibration and thermal cycles is also available. **Please consult factory for details.**

## M4916 SERIES EMI LINE FILTER

### Safety Requirements

The M4916 EMI Line Filter was subjected to the following tests according to IEC 60939-3.

Group	Subclauses and test
0	4.2, 4.9, 4.3, 4.5, 4.8, 4.7
1A	4.2.4, 4.11, 4.30
2	4.18.5, 4.18.3, 4.19
3A	4.20, 4.21, 4.23

### Wire Assignment:

Wire Name	Color*	AWG#
PHASE	●	16
NEUTRAL	●	16
CHASSIS	●	16

#### AC Input Wires

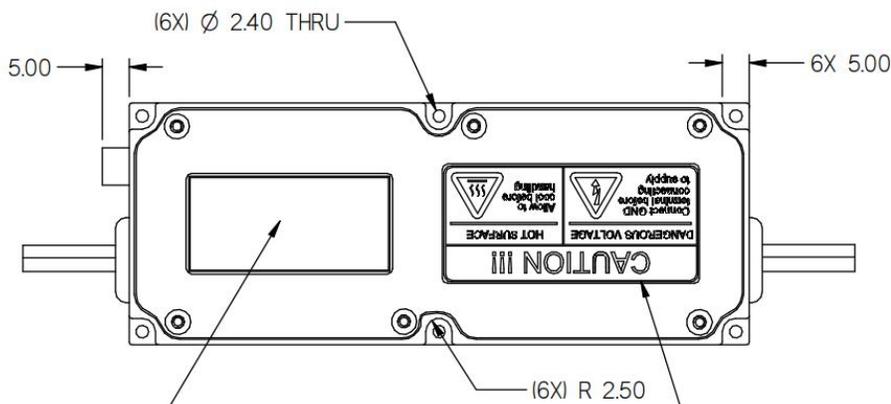
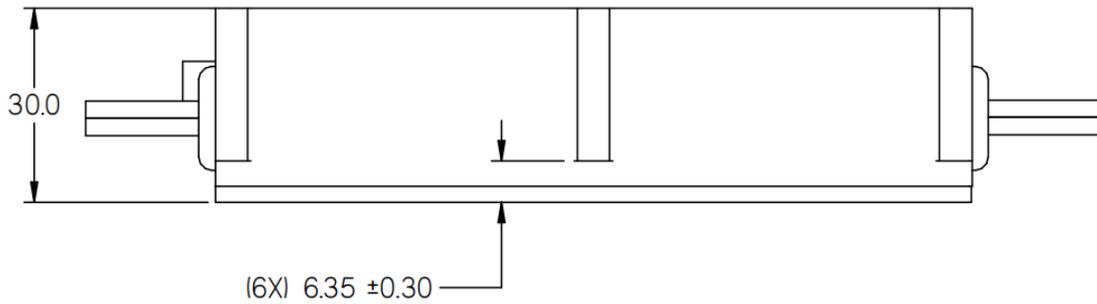
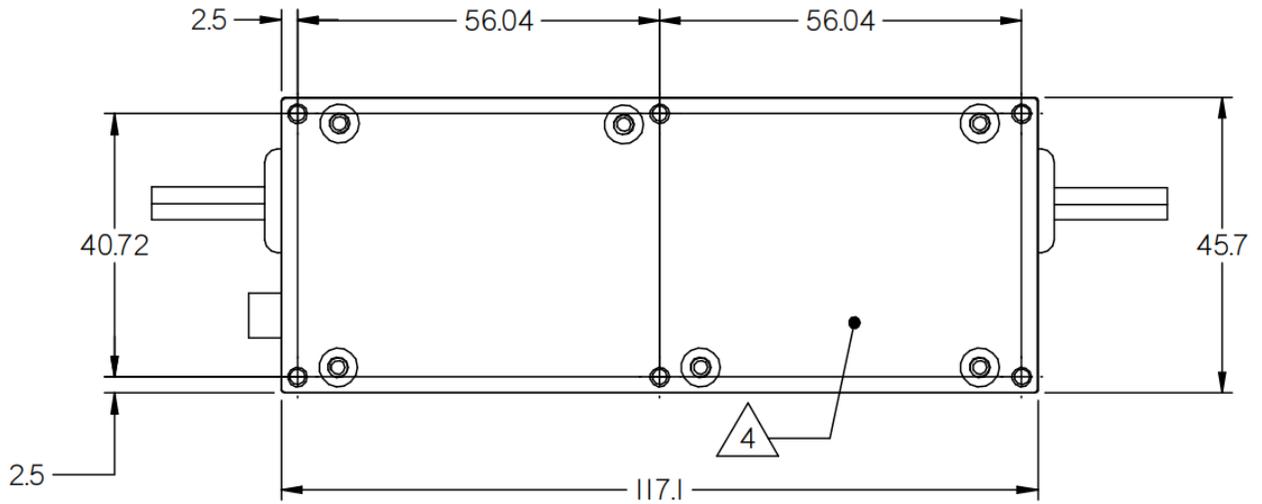
Wire Name	Color*	AWG#
PHASE	●	16
NEUTRAL	●	16
CHASSIS	●	16

#### AC Output Wires

\*Or equivalent color according to the outline drawing.

**M4916 SERIES EMI LINE FILTER**

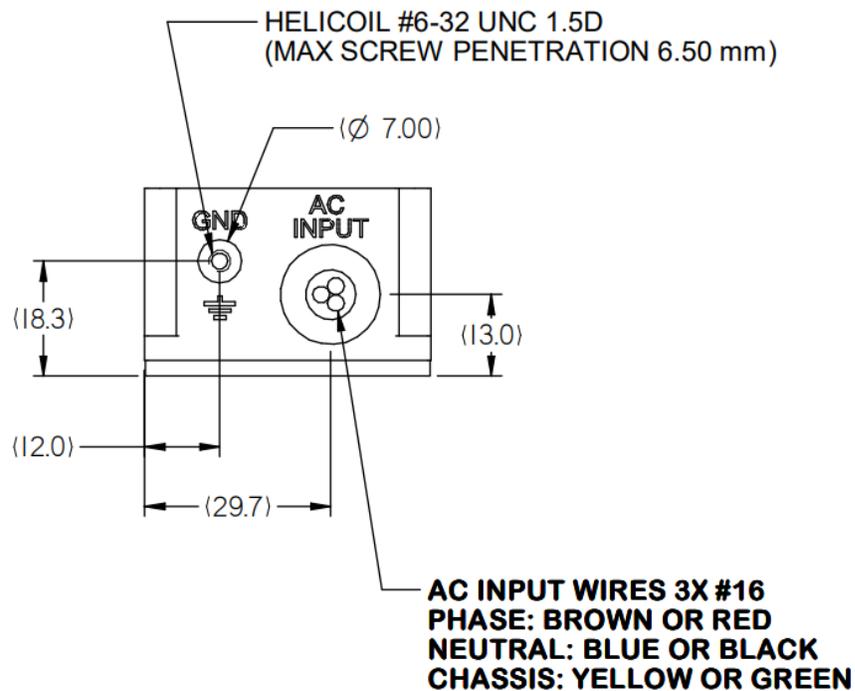
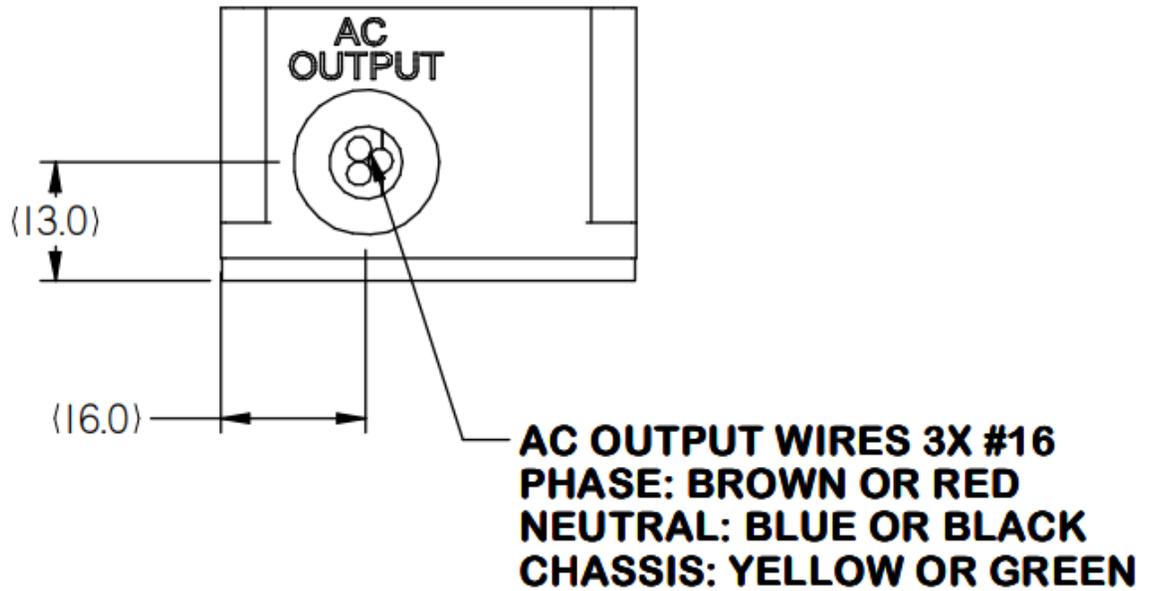
*Outline Drawing*



Milpower SourNAME PLATE  
Email: [sales@r](mailto:sales@r)

GND AND HOT SURFACE  
WARNING LABEL

**M4916 SERIES EMI LINE FILTER**



## M4916 SERIES EMI LINE FILTER

### NOTES :

1. WORKMANSHIP SHALL BE MIL-STD-454, REQ. 9
2. MTL. AL 6061-T651& AL 5052-H32
3. CHROMATE CONVERSION COATING PER MIL -DTL-5541F,TYPE 2 CLASS 1A
4. HEAT DISSIPATION AREA: 5,100 mm<sup>2</sup>
5. ENGRAVING:  
CHARACTERS HEIGHT: 3 (mm), DEPTH: 0.4 (mm).  
ENGRAVING FILLED WITH BLACK COLOR.

#### Notes

1. Dimensions are in inches [mm]
2. Tolerance is:  
.X ± .3 in  
.XX ± .15 in
3. Weight: Typical 230 gram

### Standard Configurations

Part number	Input		Output
	Voltage range	Frequency	
M4916-800	Single-phase, 85 to 265 V <sub>AC</sub>	50/60/400 Hz	Following Input Up to 500W
M4916-100	Single-phase, 85 to 265 V <sub>AC</sub>	50/60/400 Hz	Following Input Up to 500W

### Special Features for M4916-800:

- Intended to work in front of M3916 CE Marking (IEC 62368-1) AC/DC converter. **Please consult factory for details.**
- This Product is REACH Compliant.
- The aluminum parts comprising this converter are chromate conversion coated per MIL-DTL-5541F, Type II CLASS 1A or eq
- This configuration is CE certified.

### Special Features for M4916-100:

- Intended to work in front of M3916 AC/DC converter. **Please consult factory for details.**
- This Product is REACH Compliant.
- The aluminum parts comprising this converter are chromate conversion coated per MIL-DTL-5541F, Type II CLASS 1A or eq

Additional standard configurations available. Consult factory for details

**Note: Specifications are subject to change without prior notice by the manufacturer**

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