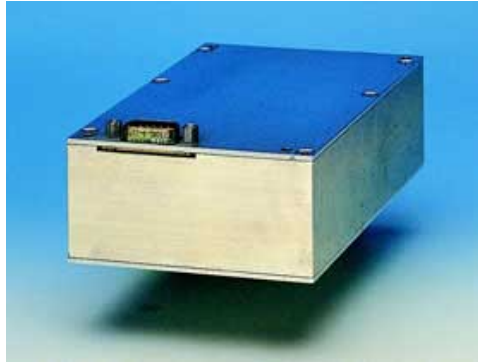


# M914 SERIES

MINIATURE, HIGH DENSITY,  
3 PHASE, 400 Hz INPUT,  
90W, SINGLE & DUAL OUTPUT,  
AC/DC CONVERTERS



## **APPLICATIONS**

Military, Ruggedized, Telecom, Industrial

## **SPECIAL FEATURES**

- Miniature size
- High efficiency
- Hi Reliability Components
- Input / Output isolation
- EMI/RFI filters included
- Indefinite short circuit protection with auto-recovery
- Over Voltage Protection

## **ENVIRONMENTAL**

Meets or exceeds MIL-STD-810D

Temperature:

Operating -55C to +85°C (baseplate)

Storage -55C to +125°C

## **RELIABILITY**

150,000 hours, calculated per  
MIL-STD-217F at +85°C baseplate,  
ground fixed.

## **ELECTRICAL SPECIFICATIONS**

### **AC INPUT**

AC Input range: 115 VAC, 3 Phase, 400 Hz

EMI/RFI:

Design to meets or exceeds MIL-STD-461D,  
CE03, CE07, RE02, RS02, RS03, CS01, CS02, CS06

Isolation:

500V between Input and Output

500V between Input and Case

### **DC OUTPUT (floating)**

Line/Load regulation:

Less than 1% (no load to full load, -40°C to +90°C)

Ripple and Noise: 30 mVp-p, typical (max. 1%)

Current limiting (FoldBack):

Continuous protection for unlimited time

Passive tranzorb on outputs.

Isolation:

500V between Output and Input

100V between Output and Case

### TYPICAL PIN ASSIGNMENT \*

PIN No.	PIN Function
1	PHASE A
2	VOUT #1 RTN
3	VOUT #1
4	PHASE B
5	VOUT #2
6	VOUT #2 RTN
7	PHASE C
8	N.C.
9	N.C.

\* Note :

Different connector pin assignment available.  
 15 & 25 Pin connectors may be used for single/dual output modules.  
 Please contact factory for specific model pin-out/connector type.

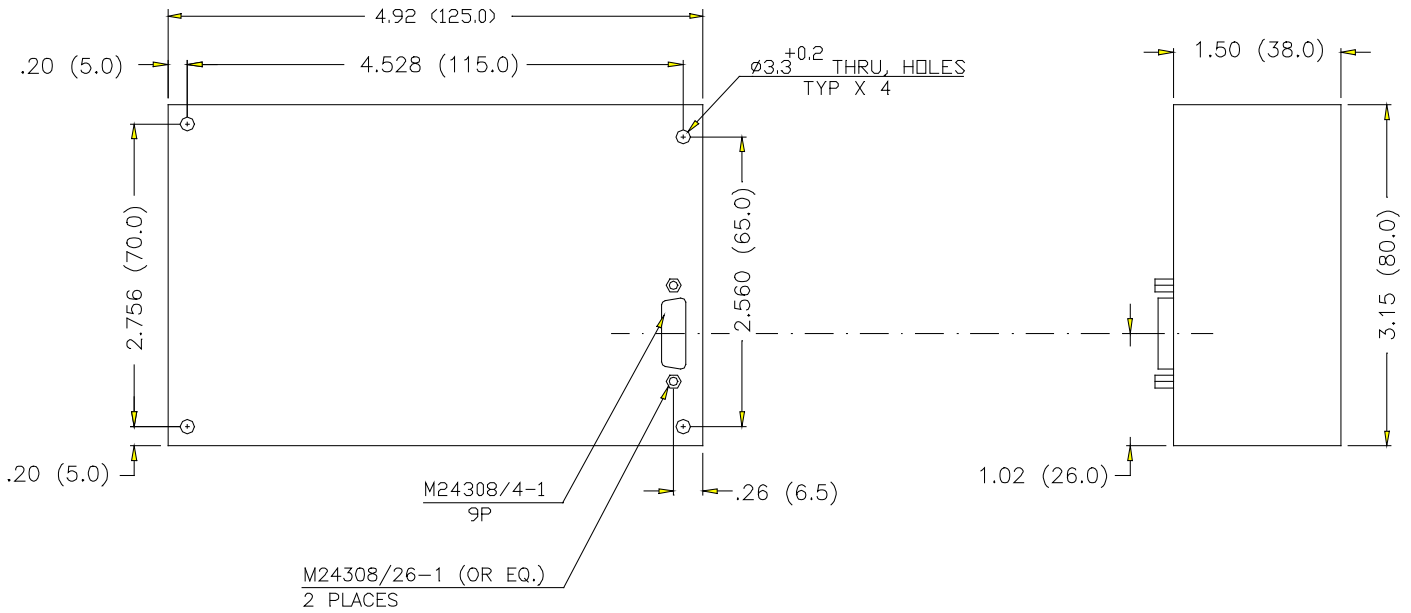
MPS can customize this module for you, please contact us !

### SELECTION GUIDE

Model	Input - 3 Phase, 400Hz	Output QTY	Output #1	Output #2	Regulation	Ripple (20 MHz BW)
M914-1	115 VAC	2	+12VDC / 4A	-12VDC / 4A	± 1%	50 mVp-p
M914-2	115 VAC	2	+15VDC / 3A	-15VDC / 3A	± 1%	50 mVp-p
M914-3	115 VAC	2	+5VDC / 2A	+28VDC / 1.5A	± 1%	50 mVp-p
M914-3SP11	115 VAC	2	+5VDC / 4A	+28VDC / 2A	± 1%	50 mVp-p
M914-4	115 VAC	2	+15VDC / 4A	-15VDC / 2A	± 1%	50 mVp-p
M914-5	115 VAC	2	+15VDC / 3A	+5VDC / 4A	± 1%	50 mVp-p
M914-6	115 VAC	2	+5VDC / 6.5A	-5VDC / 6.5A	± 1%	50 mVp-p
M914-7	115 VAC	2	+12VDC / 5A	-12VDC / 2A	± 1%	50 mVp-p
M914-8	115 VAC	1	+28VDC / 2.5A	-----	± 1%	50 mVp-p
M914-9	115 VAC	1	+5VDC / 13A	-----	± 1%	50 mVp-p
M914-10	115 VAC	1	+12VDC / 7.5A	-----	± 1%	50 mVp-p
M914-11	115 VAC	1	+15VDC / 8A	-----	± 1%	50 mVp-p
M914-12	115 VAC	1	+24VDC / 3.5A	-----	± 1%	50 mVp-p
M914-13	115 VAC	1	+28VDC / 3A	-----	± 1%	50 mVp-p
M914-14	115 VAC	1	+12VDC / 3.5A	-----	± 1%	50 mVp-p
M914-15	115 VAC	1	+24VDC / 1.8A	-----	± 1%	50 mVp-p
M914-16	115 VAC	1	+28VDC / 1.5A	-----	± 1%	50 mVp-p
M914-20	115 VAC	1	+14VDC / 7A	-----	± 1%	50 mVp-p
M914-A	115 VAC	2	+12VDC / 4.2A	+15VDC / 2.5A	± 1%	50 mVp-p
M914-A3	115 VAC	2	+15VDC / 2A	-15VDC / 2A	± 1%	50 mVp-p
M914-K	115 VAC	2	+15VDC / 0.8A	-15VDC / 0.8A	± 1%	50 mVp-p
M914-S	115 VAC	2	+15VDC / 2A	-15VDC / 2A	± 1%	50 mVp-p
M914-SP2	115 VAC	1	+5VDC / 13A	-----	± 1%	50 mVp-p
M914-SP3	115 VAC	2	+15VDC / 4A	-15VDC / 2A	± 1%	50 mVp-p
M914-SP4	115 VAC	2	+12VDC / 6A	-5VDC / 3A	± 1%	50 mVp-p

Note: other voltages and currents are available, consult factory.

**OUTLINE DRAWING**



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

**Notes**

1. Dimensions are in Inches [mm]
2. Tolerance is:  
.XX  $\pm 0.01$  IN  
.XXX  $\pm 0.005$  IN
3. Weight (Typical): 33 OZ (950 gr.)
4. Add suffix "S" for a side connector model (replacing the top connector).