

# DC POWER SUPPLY SELECTION

Electromagnets require direct current power for operation. Whether used in manual or automated handling of ferrous parts, they must release the work. Release is a function of the power supply, not the electromagnet. Two basic types of power supplies are available, **AUTOMATIC** and **MANUAL**.

## AUTOMATIC POWER SUPPLY (AP)

The AUTOMATIC power supply is designed with a timed pulse reverse current release that insures positive release of even alloy steels, which are magnetically retentive. A 50ma single pole switch closure is all that is required to activate the power supply and can be incorporated with PLC or other computerized equipment. All automatic power supplies must be mounted vertically and are available with or without a NEMA 12 enclosure. Other enclosures are available.

### POWER SUPPLY PANEL ONLY

PRODUCT NUMBER	HT.	WTH.	MOUNTING	WATTS
AP4-048-12V-P	10.75	8.88	10.25 X 8.25	48
AP4-096-12V-P	10.75	8.88	10.25 X 8.25	96
AP4-250-12V-P	12.75	10.88	12.25 X 10.25	250
AP4-500-12V-P	14.75	12.88	14.25 X 12.25	500
AP4-048-24V-P	10.75	8.88	10.25 X 8.25	48
AP4-096-24V-P	10.75	8.88	10.25 X 8.25	96
AP4-250-24V-P	12.75	10.88	12.25 X 10.25	250
AP4-500-24V-P	14.75	12.88	14.25 X 12.25	500
AP4-300-110V-P	10.75	8.88	10.25 X 8.25	300
AP4-1000-110V-P	12.75	10.88	12.25 X 10.25	1000

**12 VOLT DC  
OUTPUT**

**24 VOLT DC  
OUTPUT**

**110 VOLT DC  
OUTPUT**

### POWER SUPPLY WITH NEMA-12 ENCLOSURE

PRODUCT NUMBER	HT.	WTH.	MOUNTING	WATTS
AP4-048-12V	12.00	10.00	12.75 X 8.00	48
AP4-096-12V	12.00	10.00	12.75 X 8.00	96
AP4-250-12V	14.00	12.00	14.75 X 10.0	250
AP4-500-12V	16.00	14.00	16.75 X 12.0	500
AP4-048-24V	12.00	10.00	12.75 X 8.00	48
AP4-096-24V	12.00	10.00	12.75 X 8.00	96
AP4-250-24V	12.00	10.00	12.75 X 8.00	250
AP4-500-24V	16.00	14.00	16.75 X 12.0	500
AP4-300-110V	12.00	10.00	12.75 X 8.00	300
AP4-1000-110V	14.00	12.00	14.75 X 10.0	1000
<b>VARIABLE 0-110 VOLT DC OUTPUT</b>				
AP4V-1000-110V	16.00	14.00	16.75 X 12.00	1000

## BATTERY BACK-UPS FOR ELECTROMAGNETS

For use with manual or automatic power supplies to prevent load drop during brown-outs or black-outs.

### **FEATURES:**

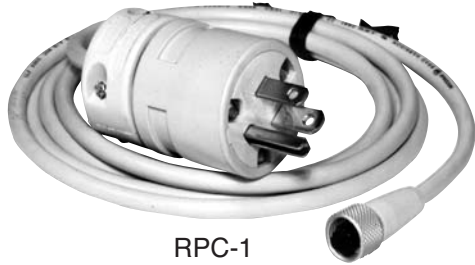
- 10 MINUTE BACK-UP AT FULL LOAD
- INDUSTRIAL DUTY
- 120 VAC INPUT ON ALL MODELS



PRODUCT NUMBER	OUTPUT VOLTS	WATTS	DIMENSIONS (IN.)			MOUNTING	WEIGHT LBS.
			HT.	WTH.	DP.		
UPS4-1000-110V	120 VAC	1000	17.5	8.2	17.5	FLOOR	75
UPS4-3000-110V	120 VAC	3000	29.8	10.2	26.8	FLOOR	285
UPS4-5000-110V	120 VAC	5000	31.0	15.0	30.0	FLOOR	502

## 110 VOLT RECTIFIED POWER CORDS

Rectified power cords are a simple and cost effective way to provide 110 volts DC to continuous duty electromagnets. Simply pick the electromagnet you wish to use from the tables below to determine which power cord should be used with the magnet. Now you can connect the magnet to the cord and plug the cord into any switched 120 VAC outlet. Plug must be used as part of the cord, hard wired versions are not available. Circuit breaker protection of the outlet is also required.



RPC-1

THE RPC-1 PLUGS DIRECTLY INTO THE FOLLOWING HEAVY DUTY MODELS:

### 110 VOLT DC CONTINUOUS DUTY

EM-2545M-110C  
EM-3060M-110C  
DCA-350M-110C  
DCA-400M-110C  
DCA-500M-110C  
DCA-600M-110C



RPC-2

THE RPC-2 PLUGS DIRECTLY INTO THE FOLLOWING HEAVY DUTY MODELS:

### 110 VOLT DC CONTINUOUS DUTY

EM-4080S-110C  
ES-4080S-110C  
EMS-4080S-110C  
EM-6012S-110C  
DCA-800S-110C  
DCA-1000S-110C

## MANUAL POWER SUPPLIES FOR ELECTROMAGNETS 12 & 24 VOLT DC OUTPUT

### MPS-048-12V FEATURES:

- 120 VAC INPUT
- 48 WATT CAPACITY
- 12 VDC OUTPUT
- HEAVY DUTY NEMA-12 ENCLOSURE
- "ON-OFF-RELEASE" SWITCH FOR REVERSE POLARITY
- 5' HEAVY DUTY MOLDED 3-PRONG POWER CORD
- 4' 18 GAUGE OUTPUT CORD
- FUSED OUTPUT



MPS-048-12V

### MPS-048-24V FEATURES:

- 120 VAC INPUT
- 48 WATT CAPACITY
- 24 VDC OUTPUT
- HEAVY DUTY NEMA-12 ENCLOSURE
- "ON-OFF-RELEASE" SWITCH FOR REVERSE POLARITY
- 5' HEAVY DUTY MOLDED 3-PRONG POWER CORD
- 4' 18 GAUGE OUTPUT CORD
- FUSED OUTPUT



MPS-048-24V

# HEAVY DUTY MANUAL POWER SUPPLIES

## 110 VOLT DC OUTPUT

COMPLETE YOUR ELECTROMAGNET INSTALLATION WITH A MANUAL DC POWER SUPPLY

### MPS-300M-110V FEATURES:

- 120 VOLTS AC INPUT
- 300 WATT CAPACITY
- 110 VDC OUTPUT
- HEAVY DUTY NEMA-12 ENCLOSURE
- "ON-OFF-RELEASE" SWITCH FOR REVERSE POLARITY
- 5' HEAVY DUTY MOLDED 3-PRONG POWER CORD
- 5' MOLDED "M" STYLE DISCONNECT OUTPUT CORD
- FUSED OUTPUT



MPS-300M-110V

### MPS-800L-110V:

- 120 VOLTS AC INPUT
- 800 WATT CAPACITY
- 110 VDC OUTPUT
- HEAVY DUTY NEMA-12 ENCLOSURE
- "ON-OFF-RELEASE" SWITCH FOR REVERSE POLARITY
- 5' HEAVY DUTY MOLDED 3-PRONG POWER CORD
- 5' SVT OUTPUT CORD WITH LEADS



MPS-300M-110V PLUGS DIRECTLY INTO THE FOLLOWING HEAVY DUTY MODELS:

EM-2545M-110C  
EM-3060M-110C  
CEA-350M-110C  
CEA-400M-110C  
CEA-500M-110C  
CEA-600M-110C  
CES-350M-110C  
CES-400M-110C  
CES-500M-110C

EM-3080M-110C  
DC-600M-110C  
DCA-350M-110C  
DCA-400M-110C  
DCA-500M-110C  
DCA-600M-110C  
DCS-350M-110C  
DCS-400M-110C  
DCS-500M-110C

### MPS-800S-110V FEATURES:

- 120 VOLTS AC INPUT
- 800 WATT CAPACITY
- 110 VDC OUTPUT
- HEAVY DUTY NEMA-12 ENCLOSURE
- "ON-OFF-RELEASE" SWITCH FOR REVERSE POLARITY
- 5' HEAVY DUTY MOLDED 3-PRONG POWER CORD
- 5' MOLDED "S" STYLE DISCONNECT OUTPUT CORD
- FUSED OUTPUT



THE MPS-800S-110V PLUGS DIRECTLY INTO THE FOLLOWING HEAVY DUTY MODELS:

CEA-800S-110C  
CEA-1000S-110C  
DC-800S-110C  
EMS-4080S-110C  
EM-6012S-110C

DCA-800S-110C  
DCA-1000S-110C  
EM-4080S-110C  
ES-4080S-110C



MPS-800S-110V

**AEC MAGNETICS 1-800-635-3954**

**FAX 1-800-635-3955**