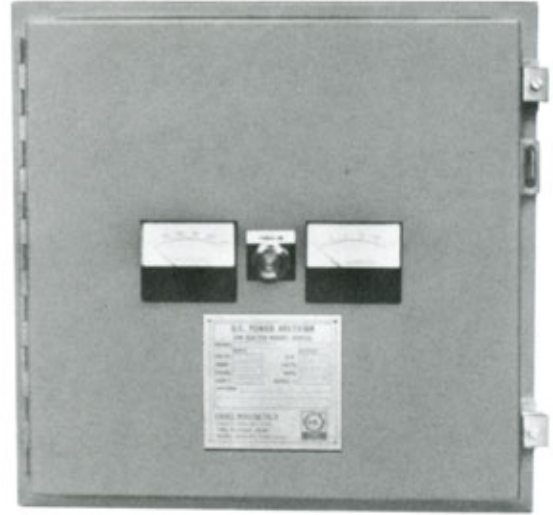


# DC POWER SUPPLIES

## LOW VOLTAGE POWER SUPPLIES FOR SMALL MAGNETS

### P/N 1300D018001

- 120/240 volt single phase AC input
- Variable output voltage 12-120 VDC
- 10 amp maximum output
- NEMA 12 (IP-65) wall mount cabinet
- Optional door mounted meter package (DC volts ammeter)
- Optional remote start/stop switch
- Weight 95 lbs., 43 kg
- Enclosure size 20" x 21 $\frac{1}{8}$ " x 11 $\frac{1}{4}$ " D. (510mm x 540mm x 290mm)



## DC POWER SUPPLY ACCESSORIES (Remote Mount)

<p><b>METER, CONTROL, LIGHT PACKAGE</b></p> <ul style="list-style-type: none"> <li>• DC VOLTMETER</li> <li>• AMMETER</li> <li>• START/STOP BUTTONS</li> <li>• AC "ON" LIGHT</li> <li>• DC "ON" LIGHT</li> <li>• NEMA 12 (IP-65) ENCLOSURE</li> </ul>		<p><b>METER PACKAGE</b></p> <ul style="list-style-type: none"> <li>• DC VOLTMETER</li> <li>• AMMETER</li> <li>• NEMA 12 (IP-65) ENCLOSURE</li> </ul>	
<p><b>DC "ON" LIGHT PACKAGE</b></p> <ul style="list-style-type: none"> <li>• NEON LAMP</li> <li>• NEMA 12 (IP-65) ENCLOSURE</li> </ul>		<p><b>SELECTOR SWITCH "ON/OFF" PACKAGE</b></p> <p>SINGLE OPTION ENCLOSURE CONTROLS, LIGHTS</p>	<p><b>START/STOP PUSHBUTTON PACKAGE</b></p> <p>TWO- OPTION ENCLOSURE CONTROLS, LIGHTS</p>
<p><b>START/STOP BUTTON AND D.C. "ON" PACKAGE</b></p> <p>THREE- OPTION ENCLOSURE CONTROLS, LIGHTS</p>		<p><b>START/STOP BUTTONS D.C. "ON" A.C. "ON" PACKAGE</b></p> <p>FOUR- OPTION ENCLOSURE CONTROLS, LIGHTS</p>	

# LIFTING MAGNET AND INDUSTRIAL HEAVY-DUTY DC POWER SUPPLIES

## FIXED AND VARIABLE VOLTAGE

Ohio Magnetics' DC Power Supplies for lifting magnets are available in both a fixed voltage output (usually 230 VDC or 115 VDC) and a variable voltage output (usually 0-230 VDC or 0-280 VDC).

Fixed Voltage output type DC Power Supplies are used in most general magnet applications. Variable Voltage supplies are used in applications of Fanning, Boost/Carry, Flux Reduction, Constant Flux Regulation, etc. Voltage outputs can be set via potentiometers for voltage limit-current regulation or current limit-voltage regulation.

Because the cold current of the magnet is 30% to 50% greater than the operating current, the power supply must be sized for the cold rating of the magnet at 25°C.

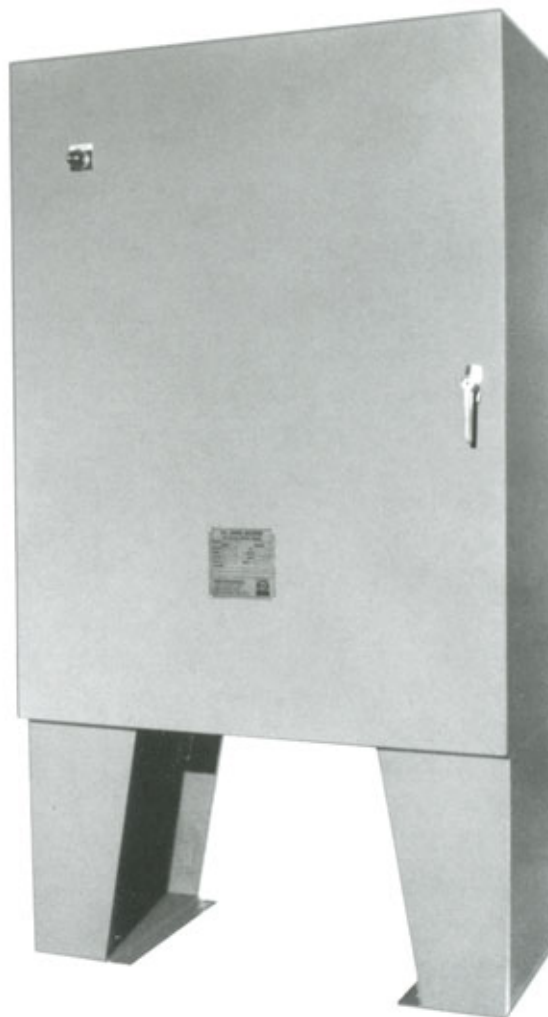
## STANDARD FEATURES:

- NEMA 12 (IP-65) enclosure natural convection
- North American or international input voltages; 3 phase; 50 or 60 Hz
- 480 V or 240 VAC input voltage, 3 phase, 60 Hz
- Magnetic line starter with 3-phase overload relay protection
- Adjustable taps on power transformers to match input line conditions
- Fast acting fuse protection for diode bridge
- Transient surge protection
- DC output fuses for short circuit protection
- AC power on indicator light (neon)
- Wall mounted enclosures to 10 KW, floor mounted enclosures above 10 KW
- 110/120 V (North America) or 220/240 (international) control voltage for input switching and operation of accessories
- 120 VAC control for input power switching
- Input and output power terminal blocks
- 230 V or 115 VDC output voltage (115 VDC output only to 25 KW).

- Modular diodes/scr's for easy replacement
- Convection cooled up to 6.5 KW (230 V) or 4 KW (115 V); Fan cooled above 6.5 KW (230 V) or 4 KW (115 V).
- Separate 230 V supply for controllers on all variable voltage supplies.

## MAGNET DC POWER SUPPLY SPECIFICATIONS:

Full Load Efficiency .....	90-96%
Power Factor .....	92-95%
Voltage Regulation .....	6% or less
Full Wave Output Ripple .....	4.6%
Power Ratings .....	100% Continuous @ 60°C Ambient
	125% 2 Hours



# LIFTING MAGNET AND INDUSTRIAL HEAVY-DUTY DC POWER SUPPLIES

## FOR PRICING INFORMATION, PLEASE SUPPLY:

1. Input voltage and frequency
2. Input line equipment desired (see options)
3. DC output voltage
4. Magnet cold current rating @ 25°C
5. Enclosure IEC 529 style or NEMA 12 (IP-65) standard
6. Additional options
7. Quantity

Note: Service, parts replacement, and rebuilding are available on existing equipment. Call for cost-saving details.

## DC POWER SUPPLY DATA FOR FIXED AND VARIABLE DC POWER SUPPLIES

KW <sup>1</sup>	Amps @ 230 V	Amps @ 115 V	Enclosure Size H* x W x D (in/mm)	Weight/Mass (lb/kg)	KW @ 280 V
2	8.7	16.6	36 x 30 x 12 915 x 760 x 305	238/110	2.5
4	17.2	33.3	36 x 30 x 12 915 x 760 x 305	265/120	5.0
6.5	28.0	54.2	36 x 30 x 12 915 x 760 x 305	310/140	8.0
10	43.1	83.3	36 x 30 x 12 915 x 760 x 305	355/160	12.5
15	64.7	125.0	48 x 36 x 16 1220 x 915 x 405	545/250	18.5
20	86.2	166.6	48 x 36 x 16 1220 x 915 x 405	595/270	25.0
25	109.0	208.0	48 x 36 x 16 1220 x 915 x 405	640/290	30.5
35	151.0	N/A	60 x 36 x 20 1525 x 915 x 510	800/360	43.0
45	194.0	N/A	60 x 36 x 20 1525 x 915 x 510	875/400	55.0
55	237.0	N/A	60 x 36 x 20 1525 x 915 x 510	950/430	67.5
65	283.0	N/A	60 x 48 x 24 1525 x 1220 x 610	1060/480	80.0
75	326.0	N/A	60 x 48 x 24 1525 x 1220 x 610	1100/500	85.5
87.5	380.0	N/A	60 x 48 x 24 1525 x 1220 x 610	1145/520	91.0
100	435.0	N/A	60 x 48 x 24 1525 x 1220 x 610	1255/570	122.0

\*Add 12 in.—305 mm to height for leg kit on floor mount models!

<sup>1</sup>NOTE: On 0-280 V variable volt output models, the power output in kilowatts is based on the power delivered to the load when voltage is set to 230 VDC.

## OPTIONAL FEATURES:

- IP32, IP66, enclosures natural\* convection
- Latch lock on enclosures where possible
- 3 wire pushbutton on/off control or 2 wire selector switch type on/off control both local or remote package
- Remote meter package on all ratings, local meter package only on IP32, IP65\*
- DC output indicator light both local or remote package
- Circuit breaker disconnect (local or remote)
- Variable voltage:
  - 0-230 V system for flux reduction, fanning, current/voltage regulation applications
  - 280 V systems for boost/carry, current/voltage regulation applications
- Power relay for operation of controller lift/drop coil from 110/120 (North America) or 220/240 (international) via pendant control
- Special requests available; please contact factory

NEMA 3R-IP32,  
NEMA 12-IP65,  
NEMA 4-IP66,  
NEMA 4X-IP66