

AC Drive
Low Harmonic
Single Phase
Power Supply



Common Bus
Solutions



BONITRON

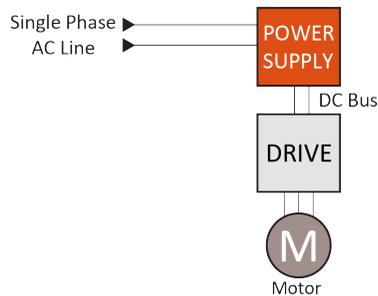
M5212 Series

The M5212 Single Phase Power Supply is a low harmonic, IEEE 519-compliant solution that eliminates the need for a reactor when powering 3-phase AC drives from a single phase source.

3-phase motors are the economical choice for motor applications above 10 horsepower, however many locations only have single phase power available due to the cost of expanding 3-phase availability.

To increase efficiency in motor-driven applications, variable frequency drives (VFDs) can be used to control 3-phase motors. VFDs offer advantages such as soft starting, speed regulation, and increased efficiency. Most VFDs are not designed for single phase operation, and even those that are must be oversized by up to 300% when operated from a single phase source.

Fortunately, there is no longer a need to oversize 3-phase drives when using them in single phase applications thanks to the Bonitron M5212 Single Phase Power Supply. The M5212 has a single phase AC input and serves as a power supply for one or multiple drives via DC bus terminal connections. In addition, the M5212 aids in protecting your drive from the high currents caused by single phase operation while running cooler, more efficiently, and in line with harmonic compliance standards



Product Highlights

- Low harmonics
- Meets IEEE 519 Standards
- Power one or multiple 3-phase drives from single phase source
- No need to derate drive for single phase operation
- Power drives via DC +/- connection
- Added bus capacitance and filtering
- Integrated precharge

Industry Applications



Grain Dryers



Pivot Irrigation



Pump Jacks



Sawmills



www.bonitron.com



615-244-2825

info@bonitron.com



Single Phase Line Regen

M3545 Series



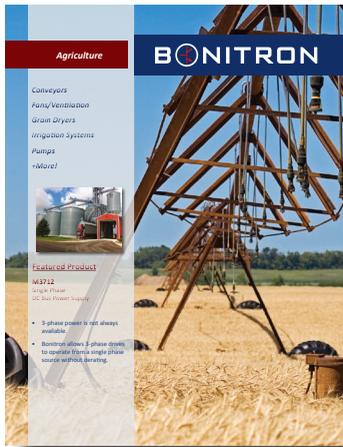
- Single or 3-Phase Applications
- 208 - 480 VAC
- 3-Phase Ratings
 - 15A Cont., 22.5A Peak for 60 Seconds
- Single Phase Ratings
 - 5A Cont., 7.5A Peak for 60 Seconds

3-Phase Common Bus Power Supply

M3713 Series



- Serves as main power supply in common DC bus systems
- Allows standard drives to meet IEEE 519 compliance with proper configuration
- Available with or without precharge



*Ideal for remote applications
such as irrigation pumps*

Specifications

- Controls**.....Built in LED Display
- Displays**..... LCD
- Harmonics**.....<5% Under Full Load
- Input Voltage**.....208 - 240VAC
- System Horsepower**....15 Hp
- Intermittent Duty Limit**...150% Full Load Rating for 60 seconds
- Overcurrent Limit**.....200% Full Load Rating
- Operating Temp**.....Derate unit 1% per every 1°C above 40°C
- Storage Temp**.....-20 to +65 °C
- Control I/O**.....Inputs: Enable
Outputs: Ready
- Indicators**.....Power, Status, Fault

Model Selection

Power (Nominal)	Model Number	Output Current	Input Current (AC RMS)	Dimensions (H x W x D)
208 - 240 VAC Drives				
15 HP	M5212-L015-G7	35 A	52 A	17" x 7.12" x 11.6"