



M3528B Battery Module

UNDERVOLTAGE SOLUTIONS FOR AC DRIVES

Bonitron's Model 3528B is a 108 V or 120 V battery bank module designed to provide emergency power during 100% power outages for industrial applications. The Bonitron M3528B is designed to be used along with the M3528 Charger and M3534 Voltage Booster as part of a complete "Ride-Thru" system for fixed bus adjustable speed PWM drives (ASDs or VSDs).

ASDs are commonly used in industry to improve control over continuous process applications. Examples include the textile and semiconductor industries, where accurate motor speed control is required. Unfortunately, these systems are quite susceptible to problems caused by fluctuations of incoming power, such as AC line voltage sags or outages. These power quality problems can be very costly for continuous process applications.

M3528 / 3534 systems are specifically designed to allow a drive system to MAINTAIN FULL MOTOR SPEED and TORQUE during a 100% loss of power. This allows the drive system to "ride through" the short term outage, or allows sufficient time for auxiliary power systems to engage before shutdown occurs.



FEATURES

- Uses standard off the shelf 12V batteries
- 120V modules
- Metal enclosure
- Pluggable modules
- Internal fuse with blown fuse indicator
- Optional monitoring
- Optional Bypass

ADVANTAGES

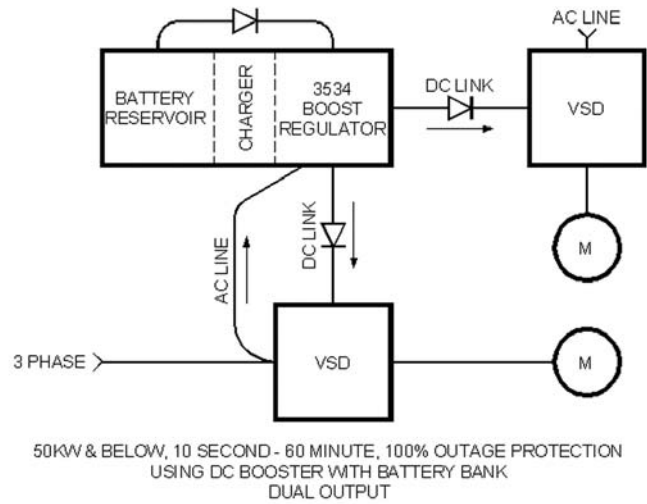
- Standard batteries are easy to procure locally
- Manageable voltage levels, configurable system voltages
- Enclosure makes module easily mountable in most locations
- Plugs make it safer to replace modules
- Fuse limits energy output
- Monitoring identifies weak batteries before failure
- Bypass enables module to run with open battery

BENEFITS

- Standard batteries means low cost fast replacement
- Can series or parallel standard modules for 230 or 460v systems
- Enclosure lessens concern over failed battery mode
- Plugs lower concern over shock hazard
- Fuse decreases chance of hazardous failure mode and indicator identifies failed module
- Monitoring allows replacement of bad battery only
- Bypass increases up time, allows replacement of bad battery only

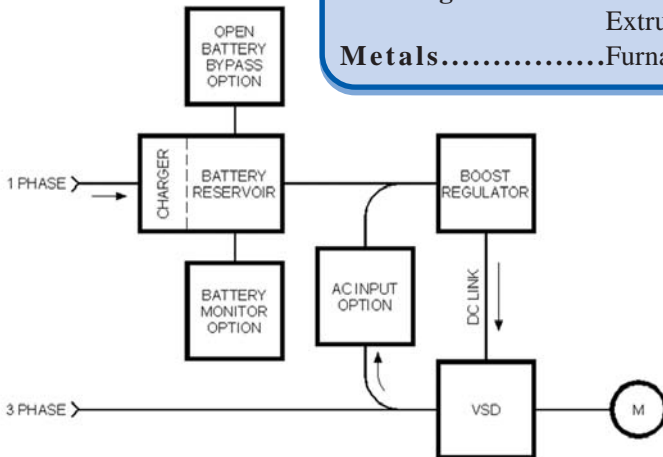
SPECIFICATIONS

DC Output Voltage.... 108 VDC or 120 VDC
DC Output Current... 40 A maximum for 10 seconds
 12 A maximum for 10 minutes
Power Rating..... 6 hp maximum (5 hp @ 108 VDC)
Storage Cells..... Nine 12v, 4 Ah for 108v Module
 Ten 12v, 4 Ah for 120v Module
 CSB-GP-1245 or Yuasa NP4-12 or equivalent
Charge Current... 1.25 ADC maximum
Charge Times..... Initial charge time of less than 8 hrs
Fusing..... (1) A60Q40 – located on internal mounting plate
Enclosure..... B5 panel mount enclosure
 17.6"(h) x 5.1"(w) x 9.4"(d)
Operating Temp..... 40°C
Storage Temp..... -10 to +40°C
Humidity..... Below 90 % Noncondensing
Atmosphere..... Free of corrosive gas and dust



INDUSTRY APPLICATIONS

Semiconductor..... Air Handling
 Escalators & Elevators
Personnel Movers.... Wind/Unwind Tension Control
Fiber Optics..... Compressors
Food Storage..... Compressors
Pharmaceutical..... Wind/unwind
Fibers..... Paper Roller
Printing..... Tension Controllers
 Extruders
Metals..... Furnace Conveyors



30 SECOND - 60 MINUTE, 100% OUTAGE PROTECTION USING DC BOOSTER WITH PROTECTED BATTERY BANK

Chassis	Max Output	Dimensions (H x W x D)
B5	40 A	18.60 x 5.10 x 9.40"

MODEL NUMBER SELECTION TABLE

Model Number	Discharge Rate:			1 minute		2.5 minute		5 minute		10 minute	
	Bank Voltage	Bank QTY	Battery Type	Watts	Joules	Watts	Joules	Watts	Joules	Watts	Joules
**Energy figured at 86.4v discharge level											
M3528B-108-040-B5	108	1	GP 1245	2,700	162,000	2,070	310,500	1,917	575,100	1,269	761,400
**Energy figured at 96v discharge level											
M3528B-120-040-B5	120	1	GP 1245	3,000	180,000	2,300	345,000	2,130	639,000	1,410	846,000