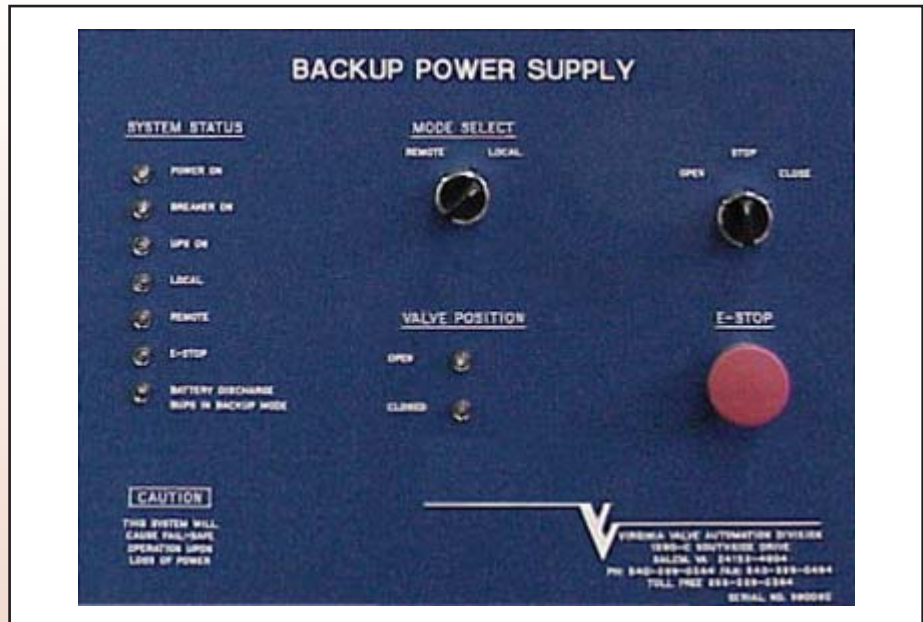
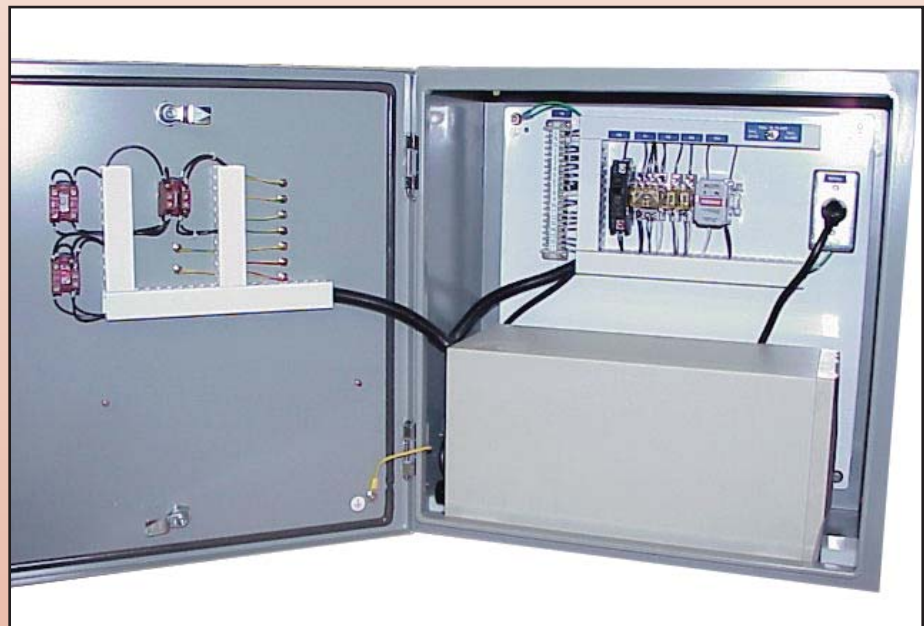


Back Up Power Supply (BUPS)

The **Series BUPS Back Up Power Supply** is an inverter system that stores energy in a sealed maintenance free battery. When an electrical power failure occurs, this stored energy will be converted to drive the customer's existing electric actuator to a "Fail Safe" position, or to continue modulating for a period of time in order to accomplish an orderly shut-down of their processes. The power system can be used with all Virginia Valve control systems or any electric actuator such as Limatorque, E.I.M., AUMA, RCS, Automax and others. The Series BUPS can be made suitable for use in all climates, in-doors and out and can be equipped with solar panel and status telemetry for very remote locations.



Standard BUPS Display



Standard BUPS Layout



Private Label BUPS



Custom private label layout

Features:

Suitable for any electric actuator

Diagnostic LED light array

Local / remote selector switch with open /closed push buttons

NEMA 4X enclosure as standard

Single phase or 3 phase AC or DC output

Suitable for 50 or 60 Hz operation

Sealed batteries

ABM – Advanced Battery Management System

Adjustable “nuisance” fault timer

Customer specified failsafe run time

100% bench test and calibration prior to shipment

Standard features are optional

Benefits:

- Converts any actuator, new or existing, into a “fail safe” actuator
- System status available at a glance
- Enhanced safety and troubleshooting during maintenance operations
- Permits manual operation of actuator from front panel of BUPS
- Easy to use for maintenance or calibration procedures
- Perfect for corrosive environments or outdoor applications
- Broad applicability, wide selection of voltages
- International or domestic applications
- Maintenance free
- Long life
- Enhanced personal and environmental protection
- Double normal battery life
- Enhances battery recharge time
- Provides a 90 day notice of battery failure
- Permits user definable power failure
- Adequate time to failsafe actuator open or closed
- Adequate time to shut down process equipment in an orderly fashion
- Standard procedure for quality assurance
- Custom designs are our specialty

INFORMATION REQUIRED TO ACCURATELY SIZE A BUPS SYSTEM

1. Number of actuators the BUPS will need to failsafe? _____
2. What is the locked rotor or peak amperage draw of each actuator? _____
3. What is the electrical requirements for the actuator(s)? _____ (Volts, AC/DC, Phase, Hertz)
4. What is the normal open/close time of the actuator(s)? _____ (sec)
5. What is the proposed fail safe mode? _____ (open/close or modulate to shutdown)
6. Type of enclosure other than standard? NEMA _____
7. Is remote operation capability required? Yes _____ No _____
8. What is the ambient min and max temperature in the operating environment? _____
9. What is the geographic elevation of the operating environment? (Ft or M) _____
10. Will a floor stand be required? (if applicable) Yes _____ No _____
11. What is the actuator manufacturer and model number? _____
12. Who is furnishing the actuator? _____



Custom BUPS to power four actuators

BUPS Suggested Specifications

Description

The Virginia Valve series BUPS backup power supply shall be of the DC to AC inverter type having a pure sine wave form or straight voltage DC type as designed and manufactured by Virginia Valve or approved equal.

General

The Virginia Valve series BUPS backup power supply, housed in a NEMA 4X enclosure, shall be equipped with the necessary provisions to supply power permitting any electric quarter turn or multi turn actuator to fail safe either open or close, or continue to modulate for proper process operation and orderly shutdown. The BUPS shall have “local” and “remote” operating modes to permit operation of the valve. Standard manual controls shall be “open/close” push buttons and “emergency stop” palm button. The BUPS shall be equipped with a diagnostic light array indicating status of the BUPS and show valve position.

Design

The Virginia Valve series BUPS shall be properly sized such that it will satisfy and complete all fail safe conditions at full power. The series BUPS shall be suitable for 120VAC, 60Hz input power to maintain the Advanced Battery Management System (ABM). The BUPS shall be electrically isolatable, equipped with input and output circuit breakers, and properly sized according to the application. All equipment within the BUPS shall be standard, state of the art industrial components. There shall be a customer adjustable timer integral to the BUPS that will filter out any nuisance faults. Batteries in the BUPS shall be of the sealed, maintenance free type. Vented lead-acid (Antimony) flooded electrolyte batteries are not acceptable. Recharge time for the system shall not exceed six hours. The series BUPS shall effectively operate within the temperature range of 32-104 degrees F (0-40 degrees C). On-line efficiency shall be greater than 96%. Output frequency distortion shall be less than +/- 0.5%. Using a Buck / Boost output voltage system, output voltage shall not exceed +/- 5% of nominal voltage.



Custom BUPS to power 3 phase actuator



Custom two station BUPS

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