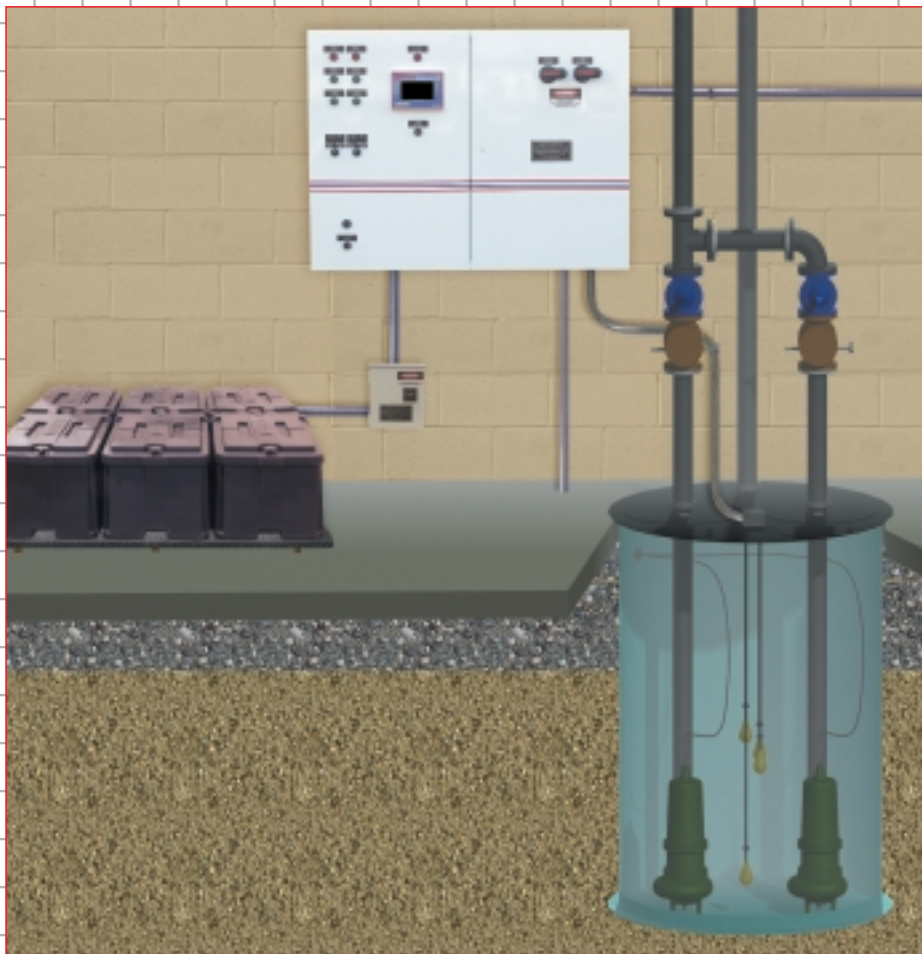


DST50

DUAL SOURCE POWER & CONTROL TECHNOLOGIES



Patent Nos 6,322,325 & 6,565,325 and other Patents Pending

- ***Duplex Motor Control Panel***
- ***Inverter or Utility Powered Standard AC Pump Motors***
- ***Battery Back-Up System***

DST 50 Dual Source Power & Control Technologies

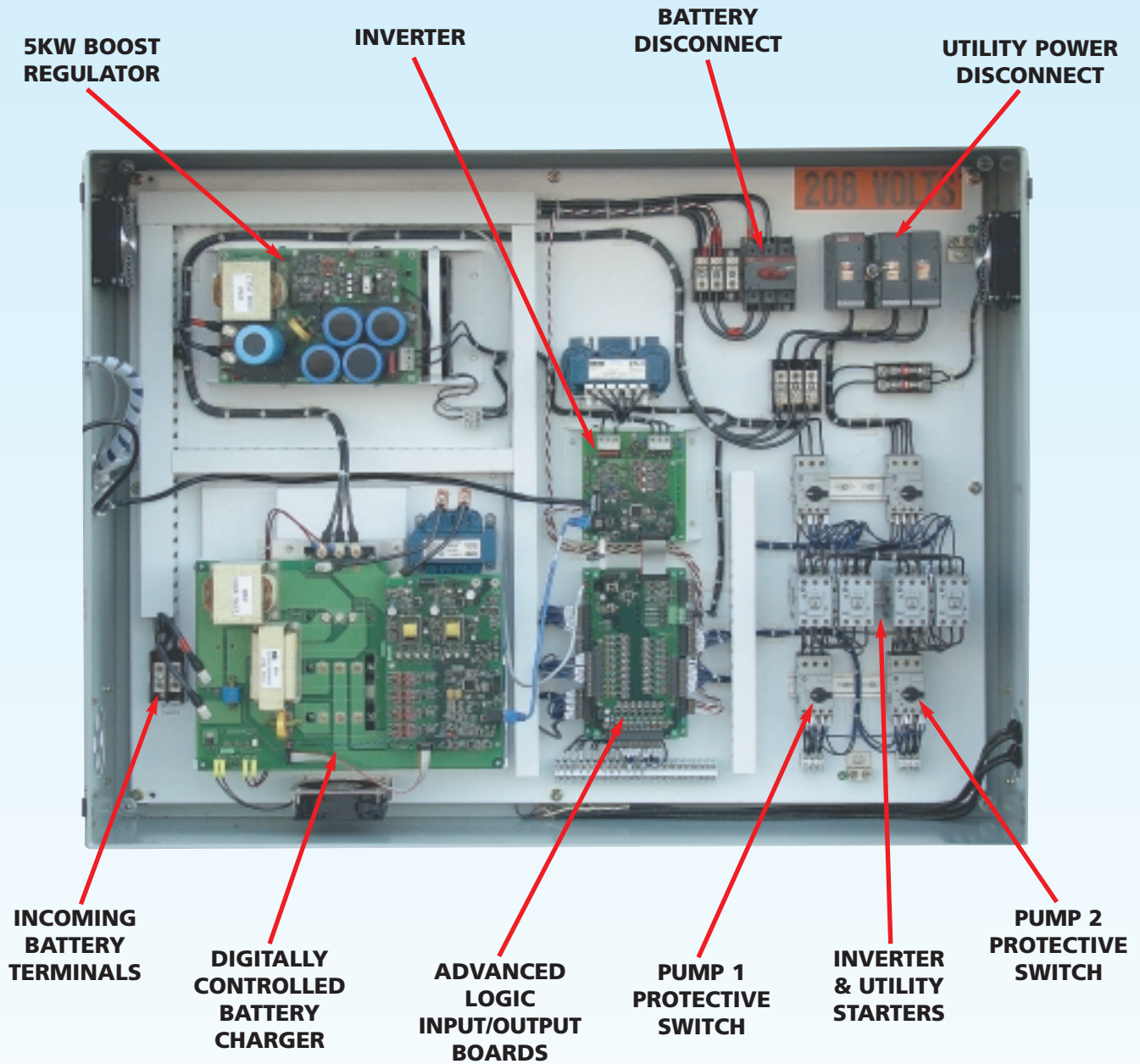


The DST50 is a new generation in pumping controls.

Initially it appears to be a standard fully-automatic duplex control panel. However, when you look closer, you will find a completely revolutionary type of pumping control system. The DST50 does what no other control system can do. It is a 3-phase duplex control panel that can run your pump system off line power when available or off batteries when the power is out!

The DST50 has been under development at Metropolitan Industries for several years. It is the most advanced fully-integrated dual power source pumping control package in the world. Look at the features of the DST50 and look at the future of pumping controls!

Control Panel Operations



Features & Specifications

The Fully-Integrated System Consists of the Following:

Duplex Motor Controls Panel

- Features Intelli-Pump Control Software
- Duplex Pump Control through Standard 4 Float Input
- Standard Operators, Alarm Lights, and Audible Alarm
- Over Current Protection
- Door Interlocked Disconnect for Both AC & DC Power

Inverter

- 5 Kilowatt Inverter with V/Hz Profiler & Low Frequency Volts Boost Capability
- Standard Input: 208v/230 v 3-phase
- Optional Input: 208v/230v 1-phase or 480v 3-phase
- Standard Output: 208v/230v 3-phase
- Optional Output: 208v/230v 1-phase or 480v 3--phase

Battery System

- 72 Volt System
- Six 8D Glass Mat Bus Batteries
–Additional Battery Banks Available
- Microprocessor Controlled 8 Kilowatt Three-Stage Charging System
- Battery Monitoring System
- Over Current Protection

Standard Alarms & System Protection

- High Water
- Pump Fail
- Pump Thermal
- Float Sequence Fault
- Power Fail
- Utility Over Voltage or Brown Out + or - 10% L1, L2, L3
- Motor Circuit Protector Failures AC & DC
- Low Battery Voltage
- Charger over Temperature
- Inverter over Temperature
- Inverter over Current
- Boost Under Voltage
- Charger Voltage Fault
- Com Link Failure

Graphical User Interface

- Multiple Screen LCD
- Utility Power Mode
- Battery Power Mode
- Float Status
- L1, L2, L3 Status
- Pump 1 & Pump 2 Status
- Battery Voltage
- Charger Status
- Inverter Output Current
- Drive Status & Frequency

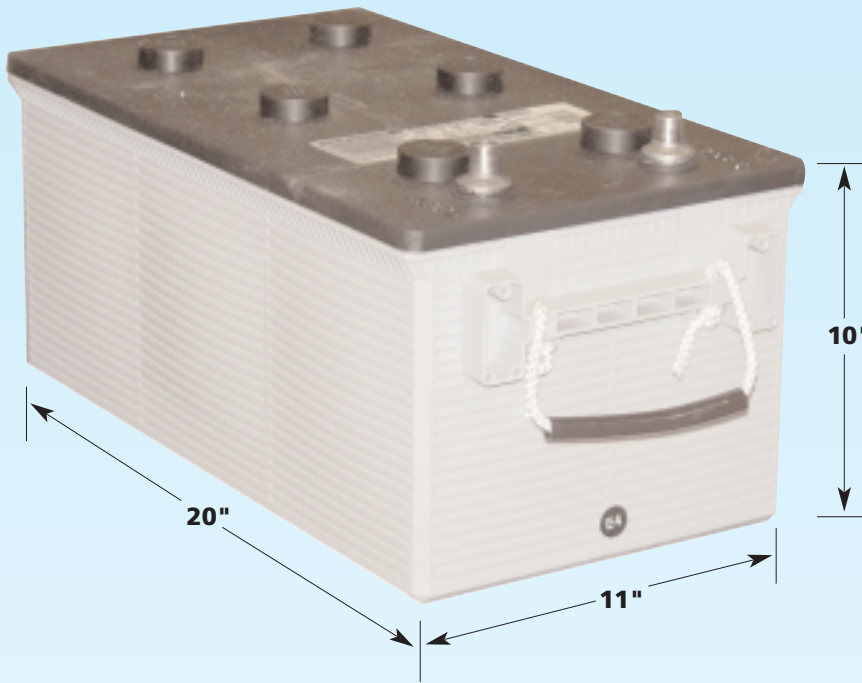
Other Features

- Phase Loss & Brownout Protection (Battery Charging & Pump Operation Unaffected During These Situations)
- Across The Line Operation under Normal Conditions
- Factory Programmed Software and Current Protection
- Remote Monitoring Available
- Software Upgradable

Optional Equipment

- Digital Event Recorder
- Network Monitoring
- Communication Hub for Expanded Serial Integration
- Wireless Monitoring

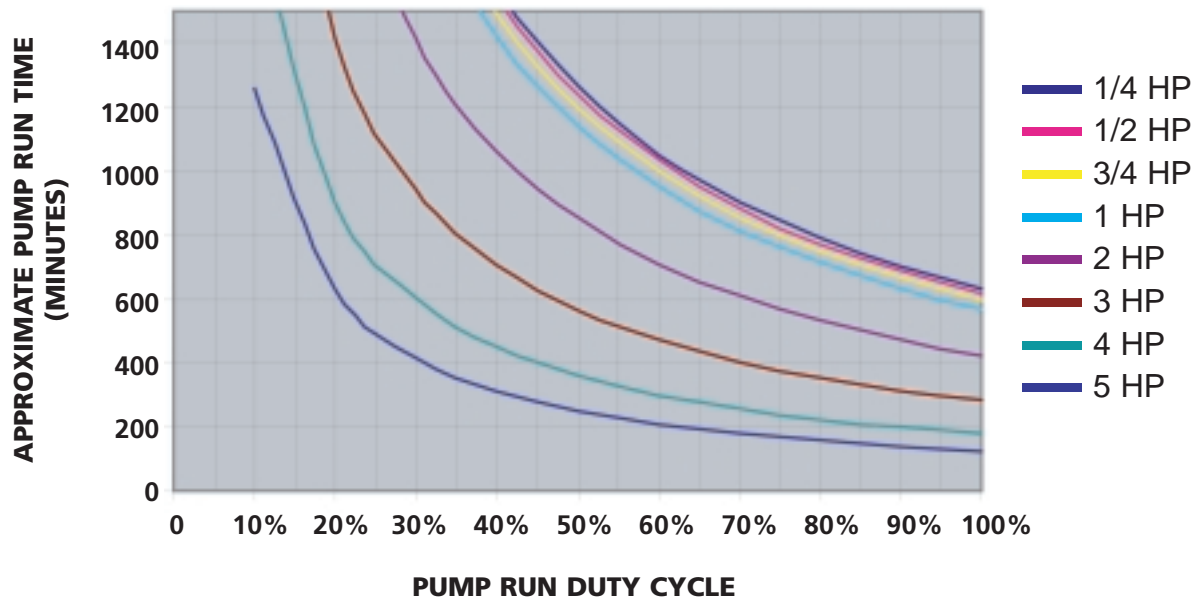
Batteries



- Exclusive Gel Formula
- Exclusive Computerized Gel Mixing
- Multi-Staged Gel Filling/Vacuuming
- Ultra-Premium Glass-Mat Dual Insulating Separators
- Special Polyester "Moss Guard" Element Wrap

Battery Life

Pump Run Duty Cycle VS Pump Run Time



All data assuming six brand new charged Deka 8A8D batteries and 80% motor efficiency. Actual results may vary.
(Additional battery banks may be added for improved performance)

Other Products from Metropolitan

CUSTOM CONTROL PACKAGES

Metropolitan Industries designs, manufactures, installs, and services control panels and systems including custom controls. With in-house electricians, design engineers, and programmers, Metropolitan is able to integrate control systems to meet individual customer requirements.



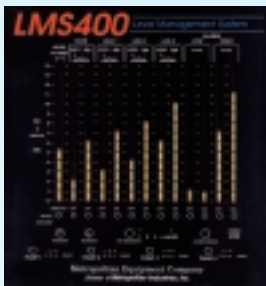
CONTROL PANELS

Created to meet your project's needs. MCC's, traffic boxes and control buildings with optional UL Listing.



METRO-TECH

Our standard and affordable variable speed controller



LMS400

Level Management System controller with push button adjustments and high intensity LED indicators.

Patent #5,503,533. UL Listed.



METRO-DATA

SCADA (Supervisory Control And Data Acquisition Systems) Instant management of your entire system. Metropolitan uses state-of-the-art communications technologies to pass data between locations.



SUMPRO

The Ultimate Fully-Automatic Auxiliary Power Source for Residential Flood Control

- Powers your existing sump pump in an outage
- Easy installation, no modifications or piping changes
- Works with any 115 V sump pump up to 1/2 HP
- Made in USA
- Fully-automatic charging system
- Microprocessor based system design

Patent #5,508,905. UL Listed.



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