

# Liberty Pumps®

## Model 441

### Emergency Sump Pump System 12V Battery Operated

*Works automatically  
when power fails!*

#### **Model 441 Includes:**

- High output 12 volt submersible pump
- Automatic, mercury-free switch
- Control panel
- Battery box (battery not included)
- 12 volt charger
- Tee, check valve and bushings for 1-1/2" or 1-1/4" connections

#### **Features:**

- Audible in-use alarm and light
- Self-resetting 24 hour silence
- Advanced 1000mA switch mode charger
- Energy Efficient
- Meets California CEC standards



*Vertical switch for  
compact pits*

*Advanced Switch  
Mode Charging-  
Energy Efficient*

innovate. evolve.



# MODEL 441

## 12 VOLT EMERGENCY SUMP PUMP SYSTEM

### FEATURES:

- Automatic 1 amp high-efficiency battery charger
- 3-stage charge cycle
- Charges and maintains your battery for peak performance
- 3 color LED shows your charge status at a glance
- At 14.4 volt peak, charger automatically switches to maintenance mode
- Designed to prevent over-charging
- Reverse battery and short circuit protection
- Solid State overload protection
- Audible alarm and light advises of emergency pump operation
- Easy wiring with slip-on connectors
- Fully assembled compact float switch.

Charger works with Group 27 or Group 31 marine-type deep cycle batteries (not included with system)  
Wet Cell or AGM compatible.

### Charger Specifications:

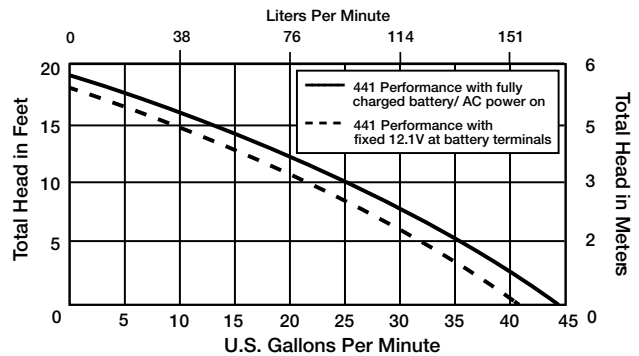
INPUT: 120VAC at 50/60 Hz., .35A  
OUTPUT: 12VDC, 1000mA

**NOTE:** NOTE: Battery life will vary based on number of pump cycles, length of cycle time and pumping head. Under a continuous run condition, the battery will last up to 4.25 hours. Under a cycling condition, (10 gallons per pump cycle at 10' of lift, 4 cycles per hour) the battery will last up to 6 days.

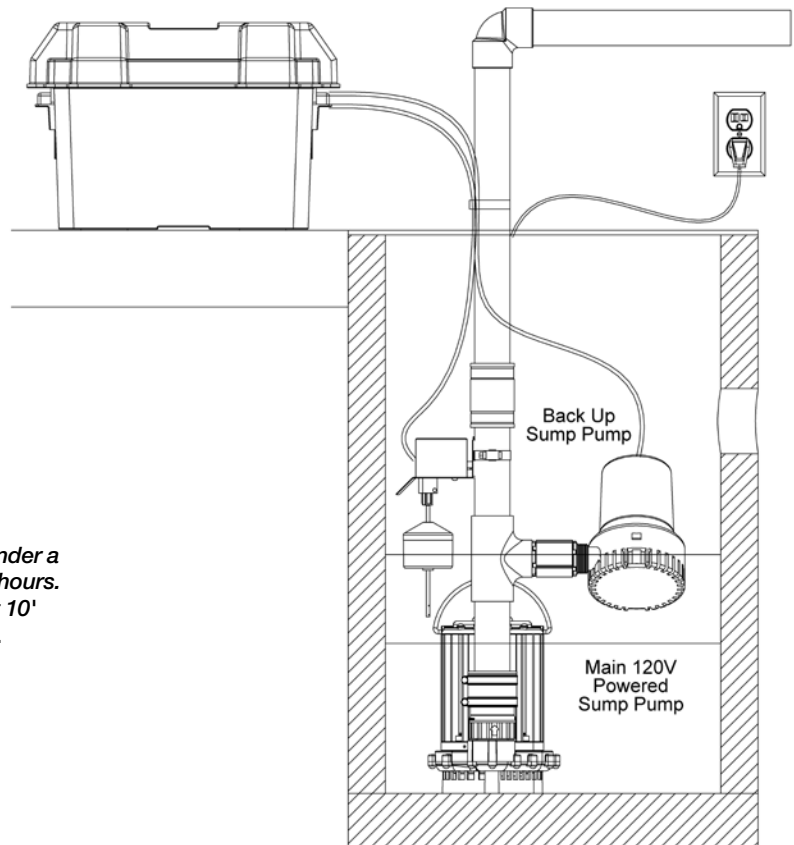


### PUMP PERFORMANCE CURVE

Model 441



### Typical Installation Diagram



(Specifications subject to change without notice.)