

Sump Pump Operating Times During Power Outage

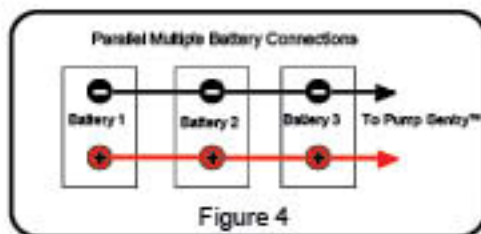
TABLE 1

			Single Battery Operation			
			Pump Current Rating - 6A		Pump Current Rating - 9A	
			Low Duty Cycle	High Duty Cycle	Low Duty Cycle	High Duty Cycle
			10 seconds on 1 minute off	10 seconds on 1 minute off	10 seconds on 1 minute off	10 seconds on 1 minute off
Battery Size	Typical A Hr.	No. of Batteries	Hours	Hours	Hours	Hours
24	80	1	25.3	8.4	16.9	5.6
27	90	1	28.5	9.5	19.0	6.3
29	95	1	30.1	10.0	20.1	6.7
30	110	1	34.8	11.6	23.2	7.7
31	125	1	39.6	13.2	26.4	8.8
4D	200	1	63.3	21.1	42.2	14.1
8D	245	1	77.6	25.9	51.7	17.2

TABLE 2

			Multiple Battery Operation for Increased Time			
			Pump Current Rating - 6A		Pump Current Rating - 9A	
			Low Duty Cycle	High Duty Cycle	Low Duty Cycle	High Duty Cycle
			10 seconds on 1 minute off	10 seconds on 1 minute off	10 seconds on 1 minute off	10 seconds on 1 minute off
Battery Size	Typical A Hr.	No. of Batteries	Hours	Hours	Hours	Hours
24	80	2	50.7	16.9	33.8	11.3
27	90	2	57.0	19.0	38.0	12.7
29	95	2	60.2	20.1	40.1	13.4
30	110	2	69.7	23.2	46.4	15.5
31	125	2	79.2	26.4	52.8	17.6
24	80	3	76.0	25.3	50.7	16.9
27	90	3	85.5	28.5	57.0	19.0
29	95	3	90.3	30.1	60.2	20.1
30	110	3	104.5	34.8	69.7	23.2
31	125	3	118.8	39.6	79.2	26.4

How to Connect Multiple Batteries



Why You Need a Pump Sentry™ Battery Backup System

With all the things to worry about during a power outage, the last thing you need is a flood in your now pitch-black basement. When the power finally does return, you look in horror as you see your personal belongings floating, cardboard boxes saturated and soggy, and ruined electronics. The Pump Sentry™ product line is designed to give you the peace of mind you want during a rain storm that leads to a power outage. When the power goes out, Pump Sentry™ automatically switches to battery power and keeps your main sump pump running and your basement dry. When power returns, Pump Sentry™ automatically starts recharging the battery, preparing for the next power outage.

FEATURES:

- Plug & Play – Can be installed with any sump pump in under 10 minutes.
- No need to install an additional pump or replace the existing one
- Clean Pure Sine Wave Output.
- Keeps sump pump operating at peak level when power is lost
- Durable - not a throw-away appliance – 10 year life expectancy.
- Specifically designed for pump operation
- Made in the U.S.A. – Locally serviceable
- 3 Year Warranty

Manufactured in the USA by:



P.O. Box 2286, 78 Ethan Allen Drive
S. Burlington, VT 05403

Tel: 802-865-8388 • Fax: 802-865-8389
email: sales@secamerica.com • Internet: www.secamerica.com

WHEN THE POWER GOES OUT...



Keep Your Basement Dry!



Pump Sentry™
Model 933

Automatic Battery Backup
For
Submersible Pumps
Pedestal Pumps
Sewage Pumps



Easy Installation in Under 10 Minutes

1) Mount on a shelf or to a wall (Fig. 2):

Pump Sentry conveniently mounts to the wall or a shelf. It should be mounted at close proximity to a grounded AC outlet, provided the AC cord from the Pump Sentry will reach it.



Fig. 2

2) Make Connections (Fig. 3):

- Make sure the On/Off switch is in the OFF position.
- Connect battery to Pump Sentry™ using supplied cables
- Plug your Pump into Pump Sentry's AC outlet.
- Plug the Pump Sentry into a 120 volt AC outlet.
- Turn the On/Off switch to ON. (Fig. 3A)



Fig. 3



Fig. 3A

ELECTRICAL SPECIFICATIONS		Model 933	Model 1733
Input Volts		120 VAC; 60Hz	120 VAC; 60Hz
Output Wave Shape (Backup) and Output Wave Shape (on line)		Low Distortion Sine Wave with Distortion <3% into resistive loads	Low Distortion Sine Wave with Distortion <3% into resistive loads
Maximum Continuous Output Power		1200 Watts	1800 Watts
Start Up Surge Capacity		30 A	45 A
Audio Indicator			
Audible Alarm - Imminent Shutdown		When battery has declined < 10.8V	When battery has declined < 10.8V
VISUAL LED'S		Conditions	Conditions
Active when lit - LED (A)		Power present at output receptacle.	Power present at output receptacle.
Charging LED Indicator (B) - Blinking		Blinking When Charging	Blinking When Charging
Charging LED Indicator (B) - Fully ON		Battery is full-charging suspended	Battery is full-charging suspended
Replace Battery LED Indicator (C) - Fully ON		Battery is degraded from long term use	Battery is degraded from long term use
Dimensions & Weight			
Weight		17/7.7 (lb./Kg.)	22/10 (lb./Kg.)
Size		18.5 x 8.6 x 3.5 / 47 x 22 x 9 (in./cm.)	22 x 8.6 x 3.5 / 56 x 22 x 9 (in./cm.)
Mounting Hole Centers		12 x 7.9 / 30.5 x 20 (in./cm.)	17 x 8.2 / 43.5 x 21 (in./cm.)
Supplied Cables		BC-42/4 ft. #2 gauge	BC-42/4 ft. #2 gauge

BATTERY INSTALLATION

Installation of batteries should be performed or supervised by persons knowledgeable about battery handling precautions. Install batteries in a convenient remote location particularly inaccessible to children and flammable fluids. For more information, read the Pump Sentry™ owner's manual.

Only batteries conforming to Battery Council International (BCI) group size 29 or larger are recommended. Only lead acid or AGM batteries are designed for the type of service which Pump Sentry™ requires. INSTALL ONLY deep cycle batteries. The marine-variety is acceptable. DO NOT use car batteries.

Up to three batteries may be connected as shown in Figure 4 to increase back up time. (See Table 1 and Table 2).

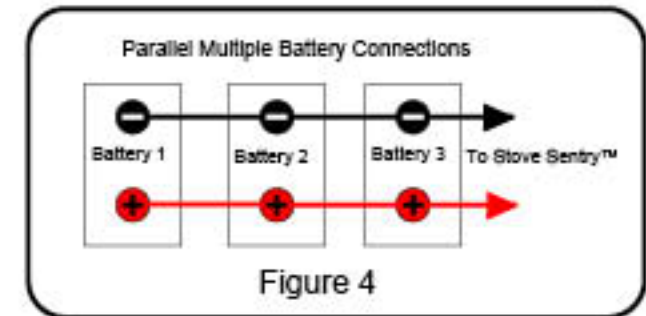


Figure 4

BATTERY BOX

Your selected battery(ies) should be installed in a high quality plastic or metal battery box with a lid that is designed for the box.



Figure 5