

Sump Pump Operating Times During Power Outage

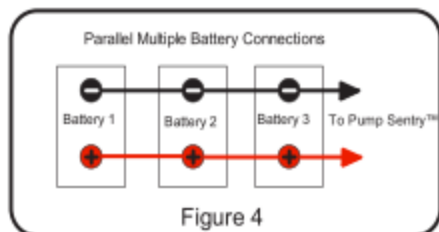
TABLE 1

			Single Battery Operation				
			Pump Current Rating - 6A		Pump Current Rating - 9A		
Battery Size	Battery BCI Group Size	Typical A-Hr.	No. of Batteries	Low Duty Cycle	High Duty Cycle	Low Duty Cycle	High Duty Cycle
				10 seconds on 3 minutes off	10 seconds on 1 minute off	10 seconds on 3 minutes off	10 seconds on 1 minute off
				Hours	Hours	Hours	Hours
24	80	1	1	25.3	8.4	16.9	5.6
27	90	1	1	28.5	9.5	19.0	6.3
29	95	1	1	30.1	10.0	20.1	6.7
30	110	1	1	34.8	11.6	23.2	7.7
31	125	1	1	39.6	13.2	26.4	8.8
4D	200	1	1	63.3	21.1	42.2	14.1
8D	245	1	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		
Battery Size	Battery BCI Group Size	Typical A-Hr.	No. of Batteries	Low Duty Cycle	High Duty Cycle	Low Duty Cycle	High Duty Cycle
				10 seconds on 3 minutes off	10 seconds on 1 minute off	10 seconds on 3 minutes off	10 seconds on 1 minute off
				Hours	Hours	Hours	Hours
24	80	2	2	50.7	16.9	33.8	11.3
27	90	2	2	57.0	19.0	38.0	12.7
29	95	2	2	60.2	20.1	40.1	13.4
30	110	2	2	69.7	23.2	46.4	15.5
31	125	2	2	79.2	26.4	52.8	17.6
24	80	3	3	76.0	25.3	50.7	16.9
27	90	3	3	85.5	28.5	57.0	19.0
29	95	3	3	90.3	30.1	60.2	20.1
30	110	3	3	104.5	34.8	69.7	23.2
31	125	3	3	118.8	39.6	79.2	26.4

How to Connect Multiple Batteries



Why You Need Pump Sentry Battery Backup

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:

- Effortless installation – easy hookup.
- No need to install an additional pump or replace the existing one
- Powerful enough for most home sump pumps. (enables your main pump to operate at full capacity)
- Durable - not a throw-a-way appliance – 10 year life expectancy.
- Made in the U.S.A. – Locally serviceable
- 2 Year Warranty

Manufactured in the U.S.A. by:



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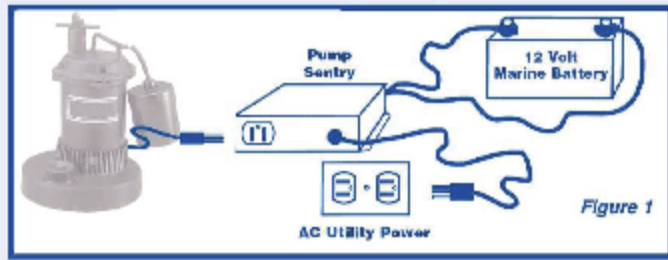
KEEP YOUR BASEMENT DRY



Main Sump Pump Battery Backup

Easy Installation In Under 10 Minutes

Figure 1 shows the interconnections of the Pump Sentry™ system:



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

One of the benefits of the Pump Sentry is that it takes up no room in the sump pit or crock, but is instead conveniently mounted to the wall or a shelf. Pump Sentry can be mounted at any convenient distance from a grounded AC outlet, provided the AC cord from the sump pump will reach it.



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.

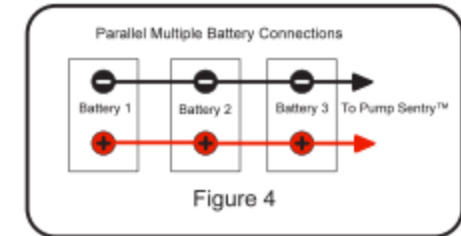
ELECTRICAL SPECIFICATION				
Input Volts	120 VAC; 60 Hz.			
Maximum Continuous Output Power	1200 Watts			
Start Up Surge Capacity (3 Seconds)	25 Amp.			
Maximum Pump Motor Rating	1/2 Hp.			
33 Amp.	3/4 Hp.			
AUDIO INDICATORS				
Audible Alarm - Imminent Shutdown	When battery level has declined to 10.8V			
VISUAL LEDS				
Active When Lit	Indicates that power is present at the output receptacle			
Bulk Charge	High Recharge State			
Float Charge	Low Recharge State - Battery Almost Full			
Fully Charged	Batter is Full - Charging Suspended			
Replace Battery	Battery is Degraded from Long Term Use			
DIMENSIONAL SPECIFICATIONS				
Model	Weight (lb.)	Physical Dimensions (in.)	Mounting Hole Centers (in.)	Supplied Cables
822PS	12	18.5 X 8.4 X 3.5	12 X 7.8	BC-42 / 4 ft. #2 gauge
1622PS	17	22.5 X 8.6 X 3.5	17 X 8.2	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 24 or larger are recommended. Only deep cycle 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 maybe connected as shown in Figure 4 to increase back up time. (See Table 2).



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