

# LittleGIANT®

## SPBS SERIES BATTERY BACKUP SYSTEMS

You put a lot of time and money into your finished basement, so trust the sump pump experts at Little Giant to protect your investment. When the electricity goes out, enjoy the peace of mind to know that your Little Giant Battery Backup System can provide hours of operation to help keep your basement dry.





# SPBS-10HF-6 AND SPBS-12HF-10 SERIES

## BATTERY BACKUP FEATURES

- 12 VDC backup pump
  - Durable non-corrosive pump housing with stainless steel fasteners
  - Easily removed bottom suction screen for serviceability and maintenance
- 115 VAC primary pump
  - Heavy-duty cast iron construction
  - Energy-efficient permanent split capacitor (PSC) motor with automatic reset thermal overload protection
  - 1-1/2" FNPT discharge piping size
  - Lift ring for easy and quick installation
- Diaphragm switch
- Check valve, elbow connector, and pump coupling
- Battery box holds size 27, 12 V deep cycle battery (battery not included)
  - \*Recommended 12 VDC deep cycle battery, lead acid or AGM



- Model 506411
  - 12 VDC backup pump
    - 42 gpm (159 lpm) at 0' (0 m) and 20' (6.1 m) shut-off
  - 10 amp controller/charger/alarm unit
  - 1/3 hp, 115 VAC primary pump
    - 53 gpm (201 lpm) at 5' (1.5 m) of lift and 28' (8.5 m) shut-off
- Model 506410
  - 12 VDC backup pump
    - 53 gpm (201 lpm) at 0' (0 m) and 23' (7 m) shut-off
  - 12 amp controller/charger/alarm unit
  - 1/2 hp, 115 VAC primary pump
    - 67 gpm (254 lpm) at 5' (1.5 m) of lift and 36' (11 m) shut-off

## SPECIFICATIONS

### ITEM NO. 506411 - MODEL NO. SPBS-10HF-6

Charging Unit	Item No.	Model No.	Volts	Hz	Max Input Amps at 115 VAC		Max Output Amps at 115 VAC	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)				
		106469	1210HF	115 VAC	60	3	10	345	6'	5	6'				
Backup Pump Switch	Item No.	Model No.	Volts	Hz	Switch On Level	Switch Off Level	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)					
	105601	RS-12	12 VDC	-	13.5"	9"	-	7'	0.5	-					
Backup Pump	Item No.	Model No.	Volts	Hz	Amps		Watts	GPM @ Height in Feet			Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)	
					FLA	Start		0'	5'	10'					
	106963	2500	12 VDC	-	14	32	168	42	29	20	20'	8.7	6'	6	
Primary Pump	Item No.	Model No.	Volts	Hz	Hp	Amps FLA	Watts	GPM @ Height in Feet				Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)
								5'	10'	15'	20'				
	506807	6EC-CIA-SFS	115 VAC	60	1/3	5	600	53	50	42	34	28'	11.7	10'	30

### ITEM NO. 506410 - MODEL NO. SPBS-12HF-10

Charging Unit	Item No.	Model No.	Volts	Hz	Max Input Amps at 115 VDC		Max Output Amps at 12 VDC	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)				
		106486	1212HF	115 VAC	60	3	12	345	6'	5	6'				
Backup Pump Switch	Item No.	Model No.	Volts	Hz	Switch On Level	Switch Off Level	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)					
	105601	RS-12	12 VDC	-	13.5"	9"	-	9'	0.5	-					
Backup Pump	Item No.	Model No.	Volts	Hz	Amps		Watts	GPM @ Height in Feet				Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)
					FLA	Start		0'	5'	10'	15'				
	106961	3360	12 VDC	-	15	32	180	53	39	24	13	23'	10	6'	6
Primary Pump	Item No.	Model No.	Volts	Hz	Hp	Amps FLA	Watts	GPM @ Height in Feet				Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)
								5'	10'	20'	30'				
	510803	10EC-CIA-SFS	115 VAC	60	1/2	6.5	750	67	57	47	28	36'	15.6	10'	26

## SPBS-10HF AND SPBS-12HF SERIES

### BATTERY BACKUP FEATURES

- 12 VDC backup pump
  - Durable non-corrosive pump housing with stainless steel fasteners
  - Easily removed bottom suction screen for serviceability and maintenance
- Diaphragm switch
- Check valve, elbow connector, and pump coupling
- Battery box holds size 27, 12 V deep cycle battery (battery not included)
  - \* Recommended 12 VDC deep cycle battery, lead acid or AGM



- Model 506406
  - 12 VDC backup pump
    - 42 gpm (159 lpm) at 0' (0 m) and 20' (6.1 m) shut-off
  - 10 amp controller/charger/alarm unit
- Model 506407
  - 12 VDC backup pump
    - 53 gpm (201 lpm) at 0' (0 m) of lift and 23' (7 m) shut-off
  - 12 amp controller/charger/alarm unit

### SPECIFICATIONS

#### ITEM NO. 506406 - MODEL NO. SPBS-10HF

Charging Unit	Item No.	Model No.	Volts	Hz	Max Input Amps at 115 VAC	Max Output Amps at 115 VAC	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)				
		106469	1210HF	115 VAC	60	3	10	345	6'	5	6'			
Backup Pump Switch	Item No.	Model No.	Volts	Hz	Switch On Level	Switch Off Level	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)				
	105601	RS-12	12 VDC	-	13.5"	9"	-	9'	0.5	-				
Backup Pump	Item No.	Model No.	Volts	Hz	Amps		Watts	GPM @ Height in Feet			Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)
					FLA	Start		0'	5'	10'				
	106963	2500	12 VDC	-	14	32	168	42	29	20	20'	8.7	6'	6

#### ITEM NO. 506407 - MODEL NO. SPBS-12HF

Charging Unit	Item No.	Model No.	Volts	Hz	Max Input Amps at 115 VDC	Max Output Amps at 12 VDC	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)					
		106486	1212HF	115 VAC	60	3	12	345	6'	5	6'				
Backup Pump Switch	Item No.	Model No.	Volts	Hz	Switch On Level	Switch Off Level	Watts	Cord (ft)	Weight (lbs)	Battery Leads (ft)					
	105601	RS-12	12 VDC	-	13.5"	9"	-	9'	0.5	-					
Backup Pump	Item No.	Model No.	Volts	Hz	Amps		Watts	GPM @ Height in Feet				Shutt-Off (ft)	PSI	Cord (ft)	Weight (lbs)
					FLA	Start		0'	5'	10'	15'				
	106961	3360	12 VDC	-	15	32	180	53	39	24	13	23'	10	6'	6

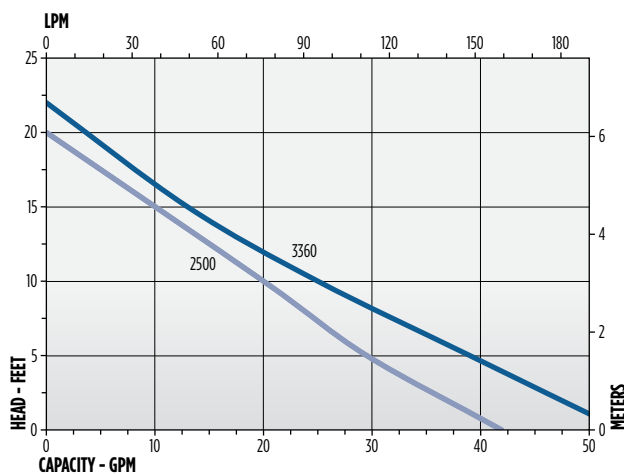


# CONTROLLER/CHARGER/ALARM

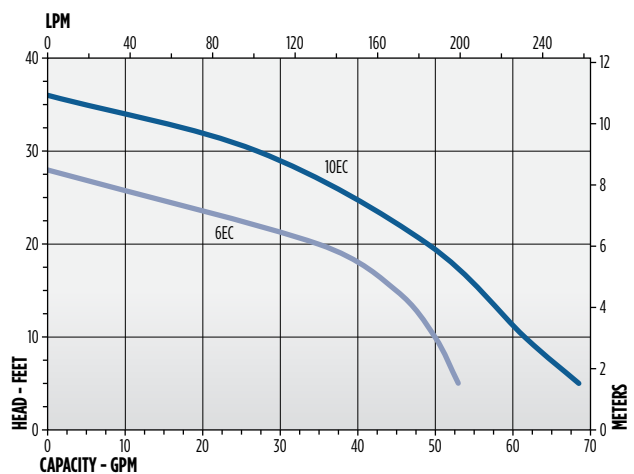
## CHARGER/CONTROLLER ELECTRICAL RATINGS

- Input: 120 VAC, 3 Amp
- Output (Maximum Charging Current):
  - Model 1210HF: 12 VDC, 10 Amps with SPBS-10HF and SPBS-10HF-6
  - Model 1212HF: 12 VDC, 12 Amps with SPBS-12HF and SPBS-12HF-10
- Use only with 12 VDC deep cycle battery rated 85-140Ah, lead-acid or AGM
  - A controller/charger monitors the battery condition and charges the battery when required. It also alerts the homeowner when the system has operated or when possible flooding conditions exist.
  - Microprocessor controlled charging unit maintains a maximum battery charge. Built-in overcharge protection to prevent damage to the battery.
  - Battery continually monitored to maintain full charge
  - Test button to manually run backup pump to insure proper operation
  - Protects against reverse polarity, short circuits, and input overloads
  - Audible alarm during 12 VDC pump operation
  - Indicator lights (LED) for:
    - Power On
    - Charging
    - Pump Run
    - High Water
    - Battery Charge Level
    - Replace Fuse

## PERFORMANCE CURVES

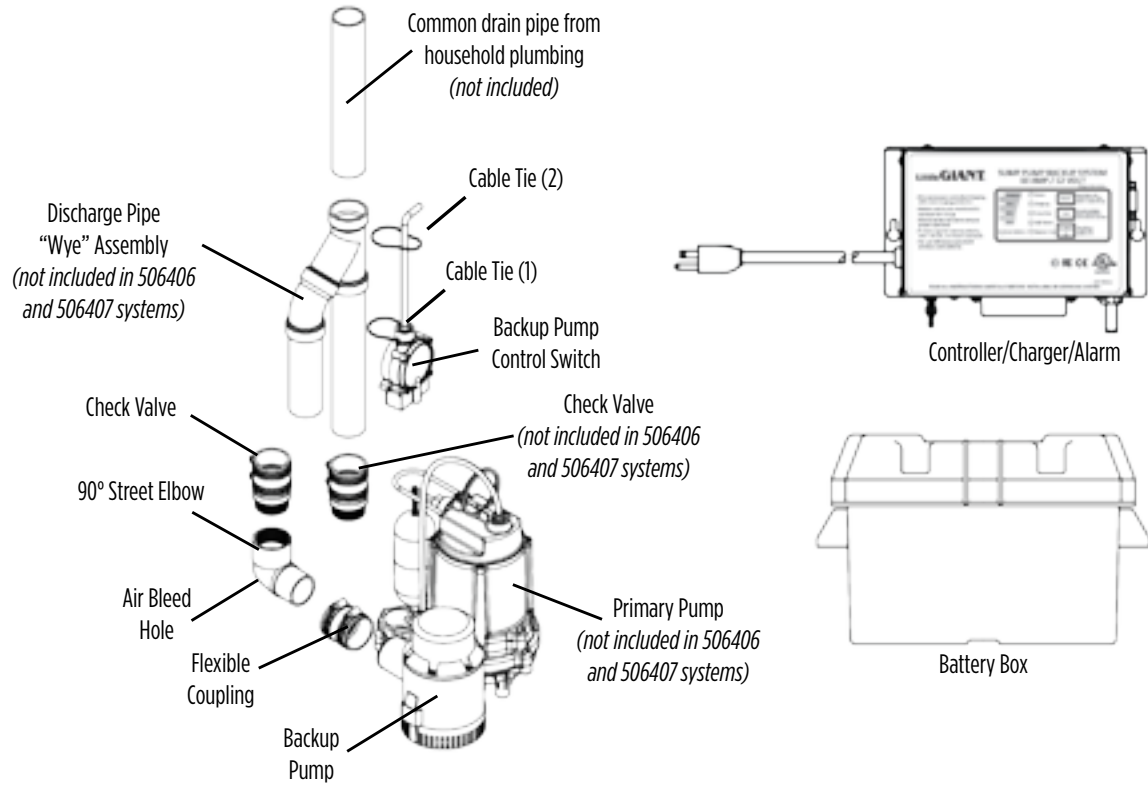


SPBS-10HF and SPBS-12HF, 12 VDC Backup Sump Pump

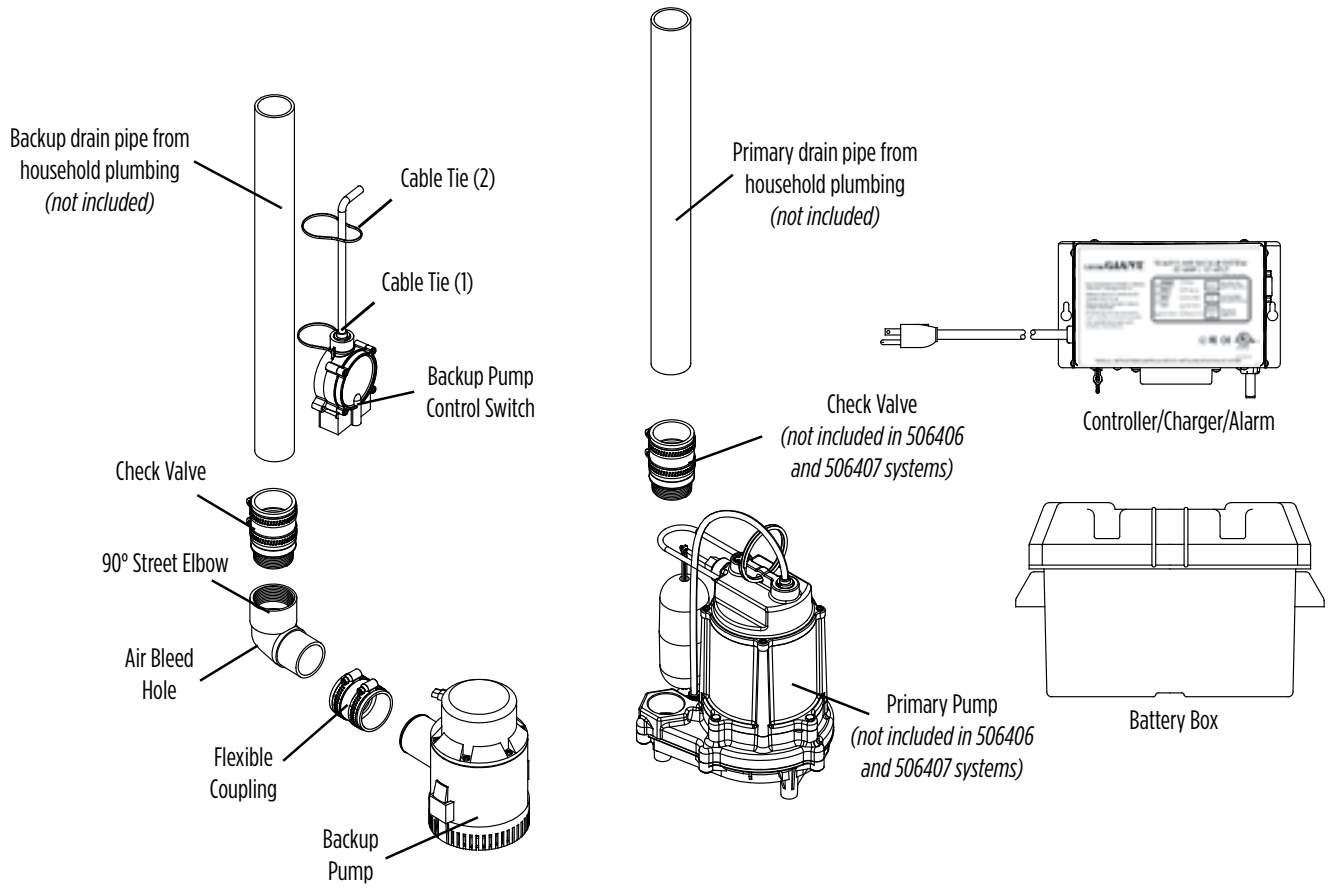


6EC - SPBS-10HF-6, 1/3 hp Primary Pump  
 10EC - SPBS-12HF-10, 1/2 hp Primary Pump

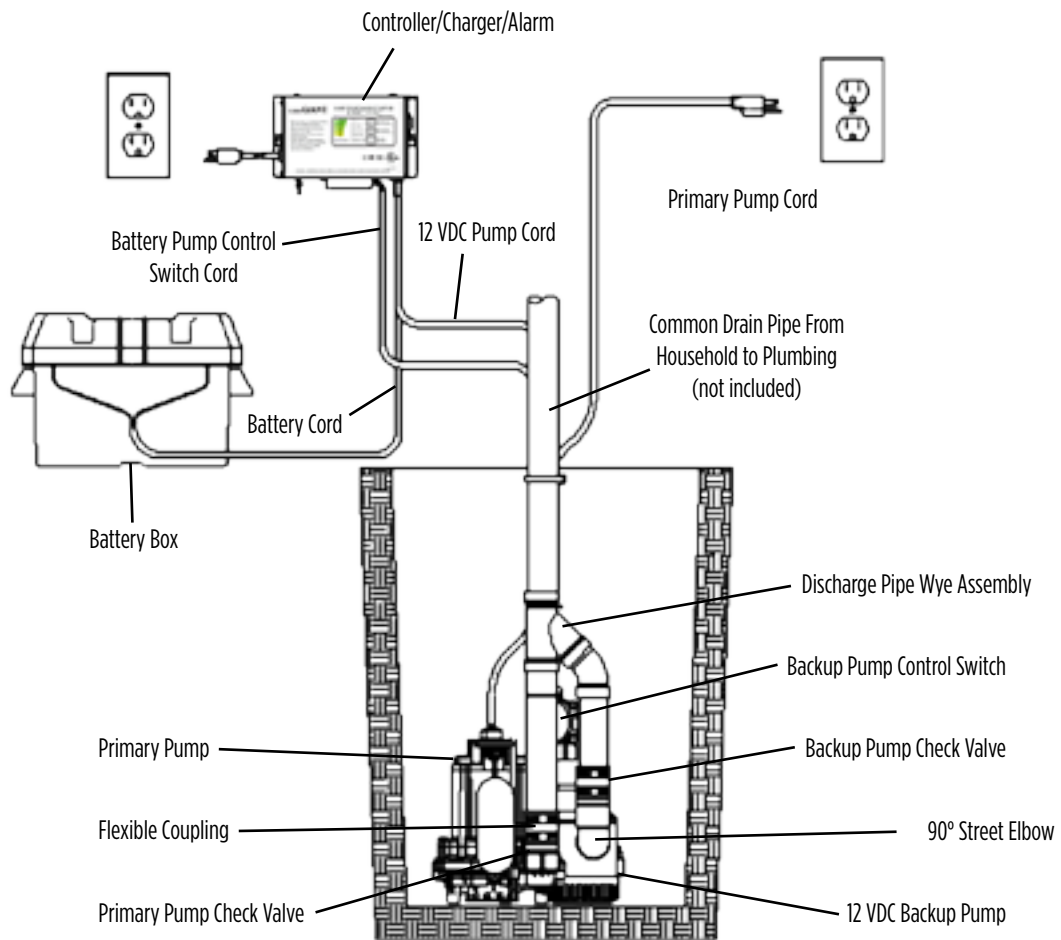
## BACKUP SYSTEM ON A COMMON DISCHARGE



## BACKUP SYSTEM ON A SEPARATE DISCHARGE



## TYPICAL INSTALLATION



# LittleGIANT®