

## SPBS SERIES - BATTERY BACKUP SYSTEMS

### FEATURES

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

- 12 VDC backup pump
  - Durable non-corrosive pump housing with stainless steel fasteners
  - Easily removed bottom suction screen for serviceability and maintenance
  - Diaphragm switch activated
- 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
- Pre-assembled
- 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 ft (0 m) and 20 ft (6.1 m) shut-off
  - 10 amp controller/charger/alarm unit
  - 1/3 hp, 115 VAC primary pump
    - 53 gpm (201 lpm) at 5 ft (1.5 m) of lift and 28 ft (8.5 m) shut-off



- Model 506410
  - 12 VDC backup pump
    - 53 gpm (201 lpm) at 0 ft (0 m) and 23 ft (7 m) shut-off
  - 12 amp controller/charger/alarm unit
  - 1/2 hp, 115 VAC primary pump
    - 67 gpm (254 lpm) at 5 ft (1.5 m) of lift and 36 ft (11 m) shut-off

### SERIES 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 15 VAC | Watts | Cord        | Weight (lbs) | Battery Leads |  |
| 106469        | 1210HF    | 115 VAC | 60 | 3                         | 10                        | 345   | 6' (1.82 m) | 5 (2.27 Kg)  | 6' (1.82 m)   |  |

| Backup Pump Switch |           |        |    |                  |                  |       |             |               |               |  |
|--------------------|-----------|--------|----|------------------|------------------|-------|-------------|---------------|---------------|--|
| Item No.           | Model No. | Volts  | Hz | Switch-On Level  | Switch-Off Level | Watts | Cord        | Weight (lbs)  | Battery Leads |  |
| 105601             | RS-12     | 12 VDC | –  | 13.5" (34.29 cm) | 9" (22.86 cm)    | –     | 7' (2.13 m) | 0.5 (0.23 Kg) | –             |  |

| Backup Pump |           |        |    |      |       |       |                    |          |         |             |     |             |                 |
|-------------|-----------|--------|----|------|-------|-------|--------------------|----------|---------|-------------|-----|-------------|-----------------|
| Item No.    | Model No. | Volts  | Hz | Amps |       | Watts | GPM (LPM) @ Height |          |         | Shut-Off    | PSI | Cord        | Weight lbs (Kg) |
|             |           |        |    | FLA  | Start |       | 0'                 | 5'       | 10'     |             |     |             |                 |
| 106963      | 2500      | 12 VDC | –  | 14   | 32    | 168   | 42 (158)           | 29 (110) | 20 (76) | 20' (6.1 m) | 8.7 | 6' (1.82 m) | 6 (2.7 Kg)      |

| Primary Pump |             |         |    |     |          |       |                    |          |          |          |              |      |           |                 |
|--------------|-------------|---------|----|-----|----------|-------|--------------------|----------|----------|----------|--------------|------|-----------|-----------------|
| Item No.     | Model No.   | Volts   | Hz | Hp  | Amps FLA | Watts | GPM (LPM) @ Height |          |          |          | Shut-Off     | PSI  | Cord (ft) | Weight lbs (Kg) |
|              |             |         |    |     |          |       | 5'                 | 10'      | 15'      | 20'      |              |      |           |                 |
| 506807       | 6EC-CIA-SFS | 115 VAC | 60 | 1/3 | 5        | 600   | 53 (201)           | 50 (189) | 42 (158) | 34 (129) | 28' (8.53 m) | 11.7 | 10'       | 30 (13.6 Kg)    |

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

| Charging Unit      |              |         |    |                          |                           |       |                    |               |               |          |               |      |              |                 |
|--------------------|--------------|---------|----|--------------------------|---------------------------|-------|--------------------|---------------|---------------|----------|---------------|------|--------------|-----------------|
| Item No.           | Model No.    | Volts   | Hz | Max Input Amps at 15 VDC | Max Output Amps at 12 VDC | Watts | Cord               | Weight (lbs)  | Battery Leads |          |               |      |              |                 |
| 106486             | 1212HF       | 115 VAC | 60 | 3                        | 12                        | 345   | 6' (1.82 m)        | 5 (2.27 Kg)   | 6' (1.82 m)   |          |               |      |              |                 |
| Backup Pump Switch |              |         |    |                          |                           |       |                    |               |               |          |               |      |              |                 |
| Item No.           | Model No.    | Volts   | Hz | Switch-On Level          | Switch-Off Level          | Watts | Cord (ft)          | Weight (lbs)  | Battery Leads |          |               |      |              |                 |
| 105601             | RS-12        | 12 VDC  | –  | 13.5" (34.29 cm)         | 9" (22.86 cm)             | –     | 9' (2.74 Kg)       | 0.5 (0.23 Kg) | –             |          |               |      |              |                 |
| Backup Pump        |              |         |    |                          |                           |       |                    |               |               |          |               |      |              |                 |
| Item No.           | Model No.    | Volts   | Hz | Amps                     |                           | Watts | GPM (LPM) @ Height |               |               |          | Shut-Off      | PSI  | Cord         | Weight lbs (Kg) |
|                    |              |         |    | FLA                      | Start                     |       | 0'                 | 5'            | 10'           | 15'      |               |      |              |                 |
| 106961             | 3360         | 12 VDC  | –  | 15                       | 32                        | 180   | 53 (201)           | 39 (148)      | 24 (91)       | 13 (49)  | 23' (7.01 m)  | 10   | 6' (1.82 m)  | 6 (2.7 Kg)      |
| Primary Pump       |              |         |    |                          |                           |       |                    |               |               |          |               |      |              |                 |
| Item No.           | Model No.    | Volts   | Hz | Hp                       | Amps FLA                  | Watts | GPM (LPM) @ Height |               |               |          | Shut-Off (ft) | PSI  | Cord         | Weight lbs (Kg) |
|                    |              |         |    |                          |                           |       | 5'                 | 10'           | 20'           | 30'      |               |      |              |                 |
| 510803             | 10EC-CIA-SFS | 115 VAC | 60 | 1/2                      | 6.5                       | 750   | 67 (254)           | 57 (216)      | 47 (178)      | 28 (106) | 36' (10.97 m) | 15.6 | 10' (3.05 m) | 26 (11.8 Kg)    |

# BATTERY BACKUP

## SPBS SERIES - BATTERY BACKUP SYSTEMS

### FEATURES

#### SPBS-1HF, SPBS-10HF AND SPBS-12HF SERIES

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



\*SPBS-1HF Only

- Model 506404
  - 12 VDC backup pump
    - 42 gpm (159 lpm) at 0 ft (0 m) and 20 ft (6.1m) shut-off
  - 1 amp controller/charger/alarm unit

### SERIES SPECIFICATIONS

#### ITEM NO. 506404 - MODEL NO. SPBS-1HF

| Charging Unit      |           |         |    |                           |                            |       |                    |              |               |             |     |             |              |
|--------------------|-----------|---------|----|---------------------------|----------------------------|-------|--------------------|--------------|---------------|-------------|-----|-------------|--------------|
| Item No.           | Model No. | Volts   | Hz | Max Input Amps at 115 VAC | Max Output Amps at 115 VAC | Watts | Cord               | Weight (lbs) | Battery Leads |             |     |             |              |
| 106459101          | OEM-1201  | 115 VAC | 60 | 1                         | 1                          | 115   | 12' (3.66 m)       | 2 (0.9 Kg)   | 1.5' (0.46 m) |             |     |             |              |
| Backup Pump Switch |           |         |    |                           |                            |       |                    |              |               |             |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Switch-On Level           | Switch-Off Level           | Watts | Cord               | Weight (lbs) | Battery Leads |             |     |             |              |
| 105601             | RS-12     | 12 VDC  | -  | 13.5" (34.29 cm)          | 9" (22.86 cm)              | -     | 9' (2.74 m)        | 0.5 (.23 Kg) | -             |             |     |             |              |
| Primary Pump       |           |         |    |                           |                            |       |                    |              |               |             |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Amps                      |                            | Watts | GPM (LPM) @ Height |              |               | Shut-Off    | PSI | Cord        | Weight (lbs) |
|                    |           |         |    | FLA                       | Start                      |       | 0'                 | 5'           | 10'           |             |     |             |              |
| 106960             | 2500      | 12 VDC  | -  | 14                        | 32                         | 168   | 42 (159)           | 29 (110)     | 20 (78)       | 20' (6.1 m) | 8.7 | 6' (1.83 m) | 6 (2.7 Kg)   |

#### 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               | Weight (lbs) | Battery Leads |             |     |             |              |
| 106469             | 1210HF    | 115 VAC | 60 | 3                         | 10                         | 345   | 6' (1.83 m)        | 5 (2.3 Kg)   | 6' (1.83 m)   |             |     |             |              |
| Backup Pump Switch |           |         |    |                           |                            |       |                    |              |               |             |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Switch-On Level           | Switch-Off Level           | Watts | Cord               | Weight (lbs) | Battery Leads |             |     |             |              |
| 105601             | RS-12     | 12 VDC  | –  | 13.5" (34.29 cm)          | 9" (22.86 cm)              | –     | 9' (2.74 m)        | 0.5 (.23 Kg) | –             |             |     |             |              |
| Primary Pump       |           |         |    |                           |                            |       |                    |              |               |             |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Amps                      |                            | Watts | GPM (LPM) @ Height |              |               | Shut-Off    | PSI | Cord        | Weight (lbs) |
|                    |           |         |    | FLA                       | Start                      |       | 0'                 | 5'           | 10'           |             |     |             |              |
| 106963             | 2500      | 12 VDC  | –  | 14                        | 32                         | 168   | 42 (159)           | 29 (110)     | 20 (78)       | 20' (6.1 m) | 8.7 | 6' (1.83 m) | 6 (2.7 Kg)   |

#### 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               | Weight (lbs) | Battery Leads |         |              |     |             |              |
| 106486             | 1212HF    | 115 VAC | 60 | 3                         | 12                        | 345   | 6' (1.83 m)        | 5 (2.3 Kg)   | 6' (1.83 m)   |         |              |     |             |              |
| Backup Pump Switch |           |         |    |                           |                           |       |                    |              |               |         |              |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Switch-On Level           | Switch-Off Level          | Watts | Cord               | Weight (lbs) | Battery Leads |         |              |     |             |              |
| 105601             | RS-12     | 12 VDC  | –  | 13.5" (34.29 cm)          | 9" (22.86 cm)             | –     | 9' (2.74 m)        | 0.5 (.23 Kg) | –             |         |              |     |             |              |
| Primary Pump       |           |         |    |                           |                           |       |                    |              |               |         |              |     |             |              |
| Item No.           | Model No. | Volts   | Hz | Amps                      |                           | Watts | GPM (LPM) @ Height |              |               |         | Shut-Off     | PSI | Cord        | Weight (lbs) |
|                    |           |         |    | FLA                       | Start                     |       | 0'                 | 5'           | 10'           | 15'     |              |     |             |              |
| 106961             | 3360      | 12 VDC  | –  | 15                        | 32                        | 180   | 53 (201)           | 39 (148)     | 24 (91)       | 13 (49) | 23' (7.01 m) | 10  | 6' (1.83 m) | 6 (2.7 Kg)   |



Franklin Electric

Technical Support: 1.800.701.7894 | www.littlegiant.com

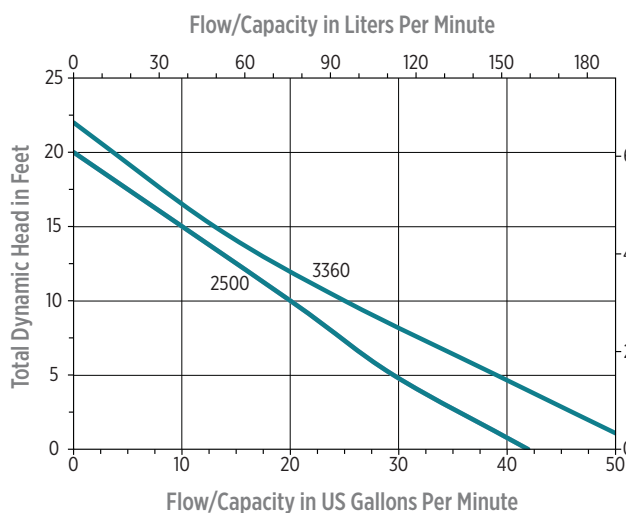
## SPBS SERIES - BATTERY BACKUP SYSTEMS

### FEATURES

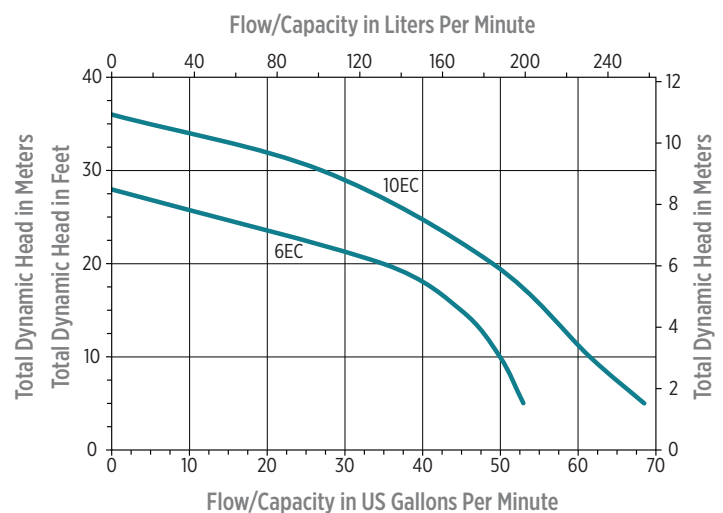
#### CONTROLLER/CHARGER/ALARM

- Input: 120 VAC, 1 AMP (Model SPBS-1HF)
- Input: 120 VAC, 3 AMP (Model SPBS-10HF and SPBS-12HF)
- SPBS-1HF
  - 2 Stage charging - Bulk charging and "float" mode for battery maintenance
  - Solid state overheat and battery over-charging protection
  - LED "Pump Running" indicator and audible alarm during backup pump operation
  - 20 amp fused junction box and blade terminal connections
- SPBS-10HF and SPBS-12HF
  - 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 ensure 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
- Output (Maximum Charging Current):
  - Model OEM-1201: 12 VDC, 1 Amp with SPBS-1HF
  - 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

### PERFORMANCE



SPBS-10HF, SPBS-12HF and SPBS-1HF 12 VDC Backup Sump Pump

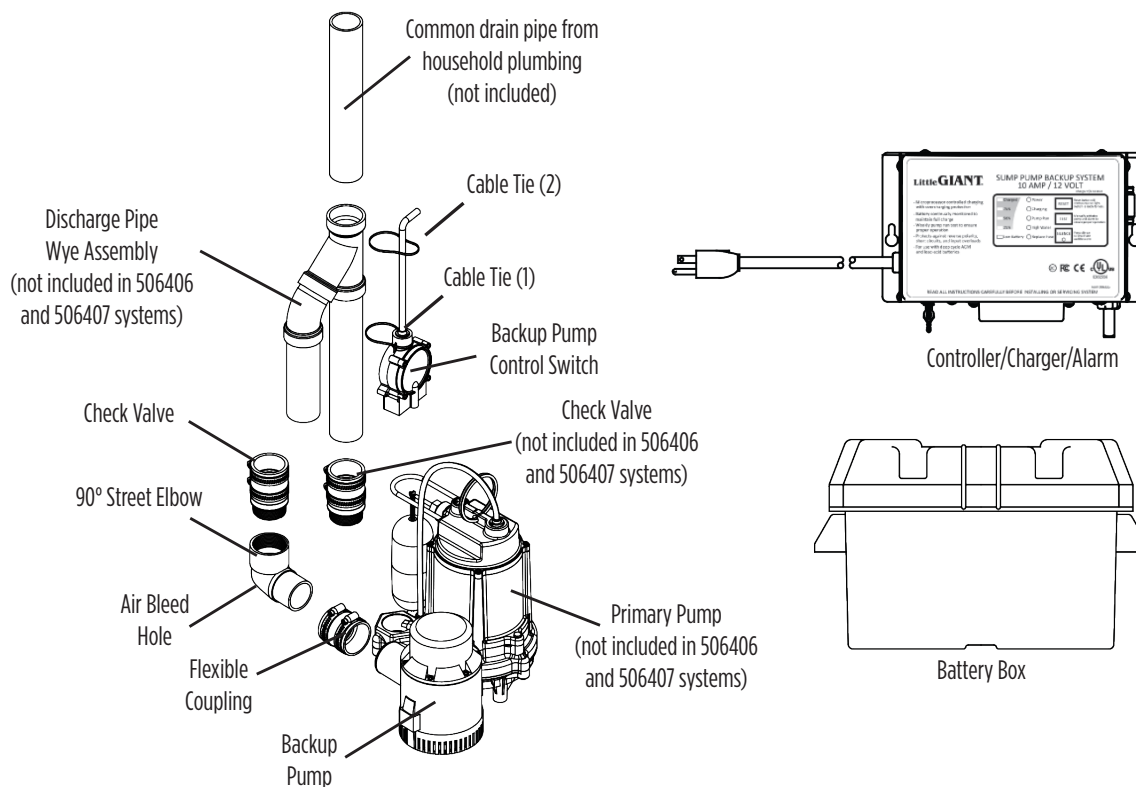


6EC - SPBS-10HF-6, 1/3 hp Primary Pump  
10EC - SPBS-12HF-10, 1/2 hp Primary Pump

# BATTERY BACKUP

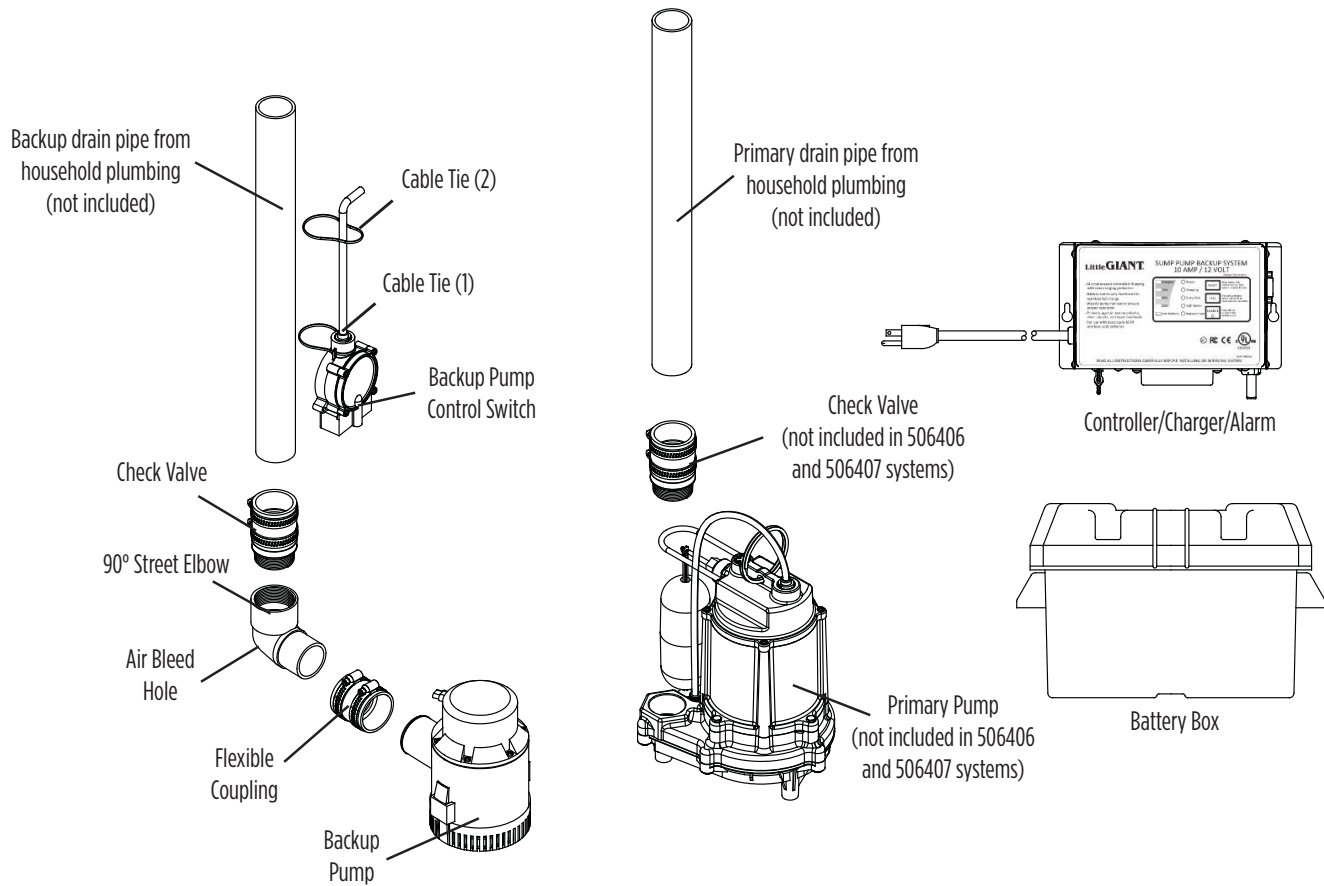
## SPBS SERIES - BATTERY BACKUP SYSTEMS

### BACKUP SYSTEM ON A COMMON DISCHARGE



## SPBS SERIES - BATTERY BACKUP SYSTEMS

### BACKUP SYSTEM ON A SEPARATE DISCHARGE



# BATTERY BACKUP

## SPBS SERIES - BATTERY BACKUP SYSTEMS

### TYPICAL INSTALLATION

