

Table 2 List of Parts Included in **UPSUI1710** Integrated Installation Package

| <b>Item</b> | <b>Qty</b> | <b>Description</b>  |
|-------------|------------|---|
| 1           | 9          | Evergreen Solar ES-190-RL Modules (190W each)                   |
| 2           | 1          | Package UV resistant wire ties                                  |
| 3           | 9          | Lay-In Ground Lugs with SS set screws and mounting hardware     |
| 4           | 1          | Module Mounting Rail Set (See details for region)               |
| 5           | 1          | Tube 50-year Weather Sealant                                    |
| 6           | 1          | 6x6x4-inch PVC W/P Junction Box                                 |
| 7           | 1          | 7-pole UL-listed terminal strip for JB                          |
| 8           | 5          | Cord connectors for module leads (1/2" KO, 3 2-hole & 2 1-hole) |
| 9           | 1          | Outback PSPV Combiner Box with 1 negative bus                   |
| 10          | 3          | 1P 15A dc breakers for PSPV                                     |
| 11          | 1          | DC Surge Arrestor   |
| 12          | 1          | Outback PS2DC DC Component Enclosure                            |
| 13          | 1          | 40A DC Circuit Breaker (Array Disconnect)                       |
| 14          | 1          | 60A DC Circuit Breaker (Charge Controller Disconnect)           |
| 15          | 1          | GFDI assembly   |
| 16          | 1          | 175A DC Circuit Breaker   |
| 17          | 1          | Set of pos, neg and ground bus                                  |
| 18          | 1          | Outback MX-60 Charge Controller                                 |
| 19          | 1          | Outback GVFX-3648 Inverter                                      |
| 20          | 1          | Outback PS2AC AC Component Enclosure                            |
| 21          | 1          | 1P60A AC Breaker  |
| 22          | 1          | Set of AC in, AC out, neutral & gnd bus                         |
| 23          | 1          | Inverter Bypass Switch  |
| 24          | 3          | 1P15A AC Breakers   |
| 25          | 1          | 60A visible, lockable, load break W/P Disconnect                |
| 26          | 4          | Concorde PVX-1080T Sealed LA Batteries or options               |
| 27          | 1          | Set 2/0 battery cables (2 6-ft & 3 13-inch)                     |
| 28          | 2          | Battery temperature sensors                                     |
| 29          | 1          | Mate Display Unit   |
| 30          | 1 ea       | Hub 4, AC & DC inverter covers, PS2MP mounting plate            |

All other parts for the system, such as THWN-2 wire, PVC conduit, conduit fittings, straps and mounting screws are standard AC electrical components that are readily available from your favorite electric parts supplier.

### **Manufacturers' Documents Included in this System Manual**

Evergreen Solar ES-190RL PV Module Data Sheets  
 Unirac Solar Mount Installation Instructions and Code Compliant Planning and Assembly  
 Outback PSPV Combiner Box and PS2DC DC Component Enclosure Data Sheets  
 Outback MX-60 MPPT Charge Controller Instruction and Installation Manual  
 Outback FX-3648 Inverter Instruction and Installation Manual  
 Outback PS2AC AC Component Enclosure Data Sheets  
 Concorde PVX-1080T Battery Data Sheets