

Table 2 List of Parts Included in **UPSUI8640** Integrated Installation Package

Item	Qty	Description
1	48	Evergreen Solar ES-180-RL Modules (180W each)
2	3	Package UV resistant wire ties
3	48	Lay-In Ground Lugs with SS set screws and mounting hardware
4	1	Module Mounting Rail Set (See details for region)
5	4	Tube 50-year Weather Sealant
6	8	6x6x4-inch PVC W/P Junction Box
7	8	5-pole UL-listed terminal strip for JB
8	24	Cord connectors for module leads (1/2" KO, 16 2-hole & 8 1-hole)
9	2	Outback PSPV Combiner Box with 2 negative busbars each
10	16	1P 15A dc breakers for PSPV source circuits
11	4	DC Surge Arrestor
12	1	Outback PS4DC DC Component Enclosure
13	2	2P60A DC Circuit Breaker (Array Disconnects)
14	2	2P60A DC Circuit Breaker (Charge Cont Disconnects)
15	2	GFDI assembly
16	2	175A DC Circuit Breaker
17	1	Set of pos, neg and ground bus
18	4	Outback MX-60 Charge Controller
19	2	Xantrex SW5548 Inverter with Grid Tie Interface
20	1	Outback PS4AC AC Component Enclosure
21	1	2P60A AC Breaker
22	1	Set of AC in (2), AC out (2), neutral & gnd bus
23	2	Inverter Bypass Switch
24	1	Set of 4 1P15A & 4 1P20A AC Breakers
25	1	60A visible, lockable, load break W/P Disconnect
26	8	Concorde PVX-2580T AGM Maint Free batteries or options 2, 3 or 4
27	1	Set 2/0 battery cables (2 6-ft & 8 short)
28	6	Battery temperature sensors for inverter and charge controllers
29	2	Optional kWh meters & enclosures

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-180RL PV Module Data Sheets

Unirac Solar Mount Installation Instructions and Code Compliant Planning and Assembly

Outback PSPV Combiner Box and PS4DC DC Component Enclosure Data Sheets

Outback MX-60 MPPT Charge Controller Instruction and Installation Manual

Xantrex SW5548 Inverter and GTI Instruction and Installation Manuals

Outback PS4AC AC Component Enclosure Data Sheets

Concorde PVX-2580T Battery Data Sheets