

## SunWize® Grid-Tie Systems with Battery Backup

Featuring the MidNite Solar E-Panel and OutBack GFX 3048-1 and GVFX 3648-1 Inverter

Photo courtesy of Sun Electric Systems

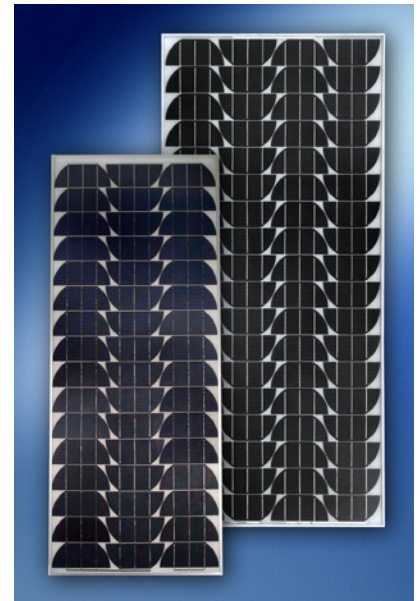


*This residence is powered by a 8.3 kW grid-tied solar system with battery backup*

SunWize Grid-Tie Systems with Battery Backup are quiet and operate automatically using solar electric technology. As the sun rises, the solar power system begins to deliver utility grade electricity to dedicated loads. Extra power not consumed will feed back into the grid and lower your electric bill. Utility power keeps the battery storage charged and supplies electricity to dedicated loads at night.

During power outages, the solar system provides power for daytime loads and battery charging for nighttime loads. SunWize Grid-Tie Systems with Battery Backup provide security and safety for your family or business during periods of extended power emergencies. On-site installation can be completed within a few days.

All electrical components are listed for safety to UL specifications. All SunWize Grid-Tie Systems with Battery Backup are certified by the Florida Solar Energy Center (FSEC) for high quality, reliable and safe operation compliant to the NEC. The FSEC certificate is useful for permitting and the inspections of installed systems.



*SunWize 100C module (left) and the SW150/160 modules (right)*



*SunWize Power Center Assembly with E-Panel and GFX inverter & MX 60 controller*

### SunWize Grid-Tie Systems with Battery Backup include:

- SunWize SW Solar Modules
- UniRac® SolarMount™ flush-mounted roof support structure
- SunWize Power Center using the MidNite Solar E-Panel with
  - 1 OutBack GFX Inverter (choice of sealed or vented)
  - 1 OutBack MX60 Controller
- 8 Concorde Sun-Xtender® Sealed Batteries (9 kWh)
- MidNite Solar Indoor Battery Enclosure
- Complete Documentation including drawings and owner's manual

# SunWize® Grid-Tie Systems with Battery Backup



E-Panel, GFX inverter and MX60 controller.

The SunWize inverter power centers are assembled and tested in the ETL-508A listed SunWize factory. These power centers combine the disconnects, over current protection devices and controls into an easy to install and operate panel. System is FSEC approved.

SunWize Grid-Tie Systems with Battery Backup offer SunWize modules and high-quality system components to provide reliable power. All major components needed for a successful installation are included with each system. In addition to solar modules and batteries, each system includes a pre-assembled, factory-tested SunWize Power Center with AC/DC disconnects and PV ground fault protection, a UniRac SolarMount support structure, MC cables, and a lockable, indoor battery enclosure. The installer provides the common AC wiring. For power needs beyond 7.2kW, additional power systems can be installed for other critical loads. An optional PSX240 transformer can be added for 120/240Vac applications and an optional digital +/- and net kWh meter is also available.

All SunWize systems include complete documentation, an installation guide and owner's manual. SunWize modules carry a 25-year warranty on power output. The SunWize Power Center carries a 1-year SunWize warranty and the Concorde batteries have a 1-year warranty. The OutBack inverters carry a 5-year warranty and the MX60 controllers have a 2-year warranty.

Sealed AGM batteries provide 9 kWh (@ 24 hr. rate) of reserve power. Expandable up to 27 kWh. Maintenance-free batteries are designed to last 10+ years in float condition.



Indoor battery enclosure for 8 Group 31 batteries is key-lockable and constructed of powder-coated steel

**Battery Enclosure Dimensions:** 33.6"W x 34.2"H x 15.2"D, weight without batteries: 30 lbs.

**SunWize Power Center Assembly Dimensions:** 26" x 18" x 18", weight: 100 lbs.

Only experienced solar energy dealers or electrical contractors should install SunWize Grid-Tie Systems. Contact your SunWize dealer for pricing.

SunWize Part #	PV Array (watts)	Solar Module	Battery Storage	OutBack Inverter	Output Power (kW)	Output Vac *	PV# Series x Parallel	PV String Voc (Vdc)	PV String Isc (A dc)	PV Array Isc (A dc)
999GTB032	2400	SW100C	9kWh	GTFX3048-1	3.0	120	4 x 6	114	4.94	29.64
999GTB033	2800	SW100C	9kWh	GTFX3048-1	3.0	120	4 x 7	114	4.94	34.58
999GTB034	2250	SW150	9kWh	GTFX3048-1	3.0	120	3 x 5	126	5.11	25.55
999GTB035	2700	SW150W	9kWh	GTFX3048-1	3.0	120	3 x 6	126	5.11	30.66
999GTB036	2400	SW160	9kWh	GTFX3048-1	3.0	120	3 x 5	126	5.43	27.15
999GTB037	2880	SW160	9kWh	GTFX3048-1	3.0	120	3 x 6	126	5.43	32.58
999GTB042	2800	SW100C	9kWh	GVFX3648-1	3.6	120	4 x 7	114	4.94	34.58
999GTB043	3200	SW100C	9kWh	GVFX3648-1	3.6	120	4 x 8	114	4.94	39.52
999GTB046	2700	SW150	9kWh.	GVFX3648-1	3.6	120	3 x 6	126	5.11	30.66
999GTB047	3150	SW150	9kWh	GVFX3648-1	3.6	120	3 x 7	126	5.11	35.77
999GTB048	2880	SW160	9kWh	GVFX3648-1	3.6	120	3 x 6	126	5.43	31.68
999GTB049	3360	SW160	9kWh	GVFX3648-1	3.6	120	3 x 7	126	5.43	36.96

For orders without mounting structures add the suffix Z to part number  
 \* 240 Vac output available with optional transformer

Systems are designed to operate in regions where average temperatures range from 5°F to 104°F

