

SunWize® Grid-Tie Systems with Battery Backup

Featuring the Beacon Smart Power™ M4 Plus and M5 Plus

Photo courtesy of Sun Electric Systems

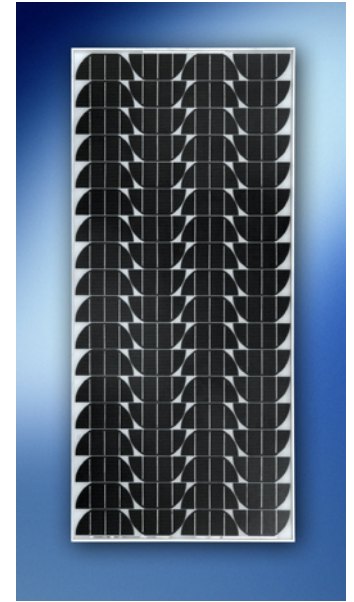


This residence is powered by a 8.3 kW grid-tied solar system with battery backup

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.



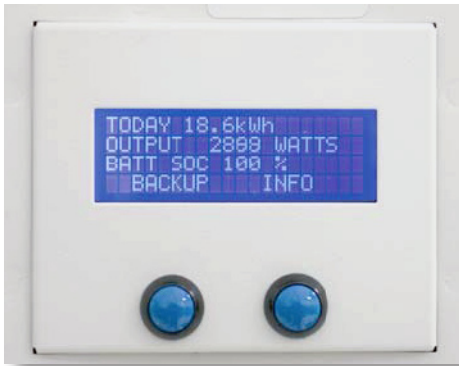
SunWize SW150/160 modules



Beacon Smart Power M4 Plus/M5 Plus

SunWize Grid-Tie Systems with Battery Backup include:

- SunWize SW Solar Modules
- UniRac® SolarMount™ flush-mounted roof support structure
- Beacon Smart Power M4 Plus or M5 Plus Solar Inverter System
- 8 Concorde Sun-Xtender® Sealed Batteries (9 kWh)
- Complete Documentation including drawings and owner's manual



The front-panel LCD display on the M4 Plus / M5 Plus provides real-time and historical information on a range of parameters, including inverter performance, state of the PV array, batteries, grid, load, and more.

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. The Beacon Smart Power M4 Plus and M5 Plus are fully integrated, single-box solutions in a compact outdoor-rated enclosure housing the inverter, battery charge-controller, associated AC/DC switchgear and ground fault protection. In addition to solar modules and batteries, each system includes a UniRac SolarMount support structure and MC cables. The installer provides the common AC wiring. For power needs beyond 5kW, additional power systems can be installed for other critical loads. For 120/240Vac applications, an optional PSX240 transformer can be added.

All SunWize systems include complete documentation, an installation guide and owner's manual.

SunWize modules carry a 25-year warranty on power

output. The Smart Power M-Series carries a 5-year warranty and Concorde batteries have a 1-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.

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

M4 Plus/M5 Plus Unit Dimensions: 42" x 16" x 10", weight: 120 lbs. Optional Smart Power system monitor software package for PC. An optional digital +/-, net kWh meter is also available.

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



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

SunWize Grid-Tie Systems with Battery Backup Benefits:

- Generate your own electricity and reduce your electric bill
- Provide backup power for critical loads during utility power outages
- Increase the value of your home
- Protect against future rate increases
- Reduce the burning of fossil fuels contributing to a healthier environment
- You may be able to save money on your system purchase with state cash rebates and tax credits. To find out about available incentives and Net Metering laws in your state, visit the www.dsireusa.org web site.

SunWize Part #	PV Array (watts)	Solar Module	Battery Storage	Inverter	Output Power (kW)	Output Vac *	PV# Series x Parallel	PV String Voc (Vdc)	PV String Isc (Adc)	PV Array Isc (Adc)
999GTB050	3600	SW150	9kWh	M4 Plus	4.0	120	2 x 12	84	5.11	61.32
999GTB051	4800	SW150	9kWh	M4 Plus	4.0	120	2 x 16	84	5.11	81.76
999GTB052	4480	SW160	9kWh	M4 Plus	4.0	120	2 x 14	84	5.43	76.02
999GTB053	5120	SW160	9kWh	M4 Plus	4.0	120	2 x 16	84	5.43	86.88
999GTB060	4800	SW150	9kWh	M5 Plus	5.0	120	2 x 16	84	5.11	81.76
999GTB061	5400	SW150	9kWh	M5 Plus	5.0	120	2 x 18	84	5.11	92A
999GTB062	5120	SW160	9kWh	M5 Plus	5.0	120	2 x 16	84	5.43	86.88
999GTB063	5760	SW160	9kWh	M5 Plus	5.0	120	2 x 18	84	5.43	98A
999GTB-9KWH – For 9kWh expansion battery system (up to 3 units total)										

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