

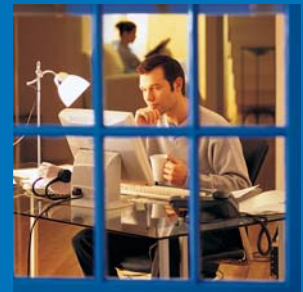
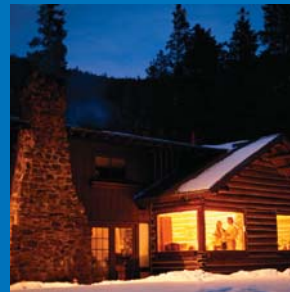


NEW!

Smart Power™ M4 Plus / M5 Plus

4kW and 5kW Grid-tied PV Power Conversion Systems

The **Smart Power M4 Plus** and **M5 Plus** from Beacon Power are at the heart of today's most dependable grid-tied battery backup solar power systems. They offer a unique combination of around-the-clock energy security, field-proven operation, extensive performance monitoring and a compact, streamlined design.



The **Smart Power M4 Plus / M5 Plus** is a fully integrated, compact power conversion solution. Its outdoor-rated enclosure houses the inverter, battery charge-controller, maximum power point tracker (MPPT), AC and DC switchgear and PV ground fault protection. Installation and system commissioning are faster, easier and less error-prone than with multiple separate components and connections.

When a grid outage occurs, the **Smart Power M4 Plus / M5 Plus** will automatically continue to provide power for the critical loads your family or business depends upon.

The new front-panel status and performance display gives you a range of highly accurate real-time operational data, as well as performance history. The system also features automatic recharge

of batteries from the utility grid, and an innovative Battery Wizard, which enables the system to work with a variety of battery types, extending your backup power options and duration.

Why buy only half a solar energy system?

Smart Power M4 Plus / M5 Plus lets homeowners and businesses enjoy the benefits of clean electricity 24 hours a day, 365 days a year. For security, comfort, performance and value, it's a smart choice.

M4 Plus / M5 Plus Features

- 4000 / 5000 watts output @ 50°C
- Front panel display of performance parameters
- Integrated, compact single-box solution
- Highly accurate Maximum Power Point Tracker
- NEMA Type 3R (rainproof) outdoor rating
- Standard 5-year warranty



Smart Power M4 Plus and M5 Plus Power Conversion Systems

Electrical

Continuous power rating @ 50°C	4000 VA / 5000 VA
PV operating range	48 - 110 VDC
MPPT control range	50 - 85 VDC
PV open circuit voltage	110 VDC (max.)
Input power	Max. array input power (DC @ STC) 4800 W / 6000 W
DC input battery voltage	48 VDC (nominal)
DC input battery voltage range	44 - 60 VDC
Continuous charge rate	100 A (max., no AC load)
Battery types supported	AGM, gel, or flooded
Battery temperature sensor	Included; 20' lead
Battery charging	From grid or PV
AC output voltage	120 VAC (nominal)
AC output voltage range	106 - 132 VAC
Frequency	60 Hz (nominal)
Total harmonic distortion	Less than 3%
Efficiency	93.5 % (peak) 91.5 % / 90% (CEC rating)

General

Operating temperature range	-20 to +50°C
Environmental rating	Indoor and outdoor
Enclosure Type	3R - rainproof / sprinkler-proof
Mounting attitude	Vertical wall mount only
Certifications	UL 1741, IEEE 929, NEC 960, CSA C22.2 No. 107.1-95
Communications	RJ-11; RS485; proprietary serial protocol
Monitoring systems	Interactive front panel LCD display with data logging, state of charge readouts (standard), audible alarm, Smart Power Monitor PC-based software

Physical

Unit weight	120 lbs. (54.5 kg.)
Shipping weight*	150 lbs. (68 kg.)
Unit dimensions	42" H x 16" W x 10" D (107cm H x 41cm W x 26cm D)
Shipping dimensions*	50" H x 22" W x 18" D (127cm H x 58cm W x 48cm D)

*Conforms to UPS and FedEx ground shipment guidelines

Additional System Components

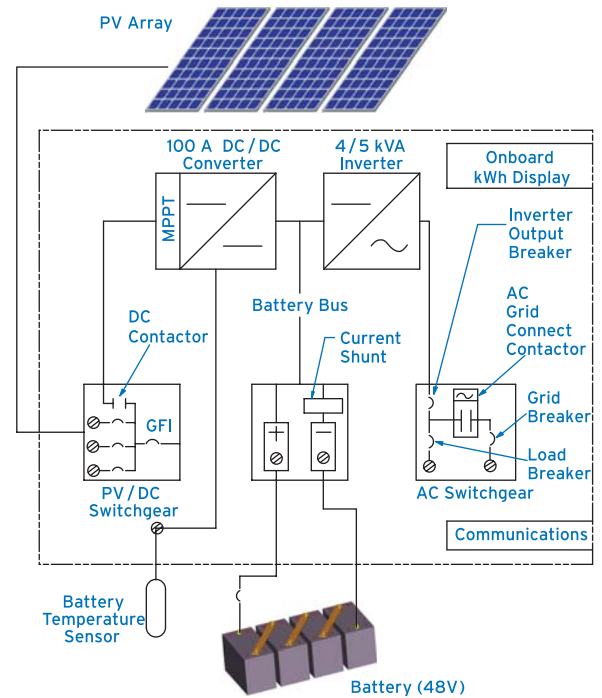
Battery breaker	Required (not included)
Battery cabinet	Required (not included)
NEMA 4 String combiner	Required (not included)

About Beacon Power

Beacon Power Corporation was established in 1997. We design, develop and deliver sustainable energy storage and power conversion solutions that provide reliable electric power for the renewable energy, telecommunications, and distributed generation markets.

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The Smart Power M4 Plus / M5 Plus is a truly integrated photovoltaic solution. The inverter, charge-controller, MPPT, AC and DC switchgear and ground fault protection are housed in one streamlined unit for ease of installation and operation.



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 for the current day and over time; state of the PV array, batteries, grid, load, and more.

