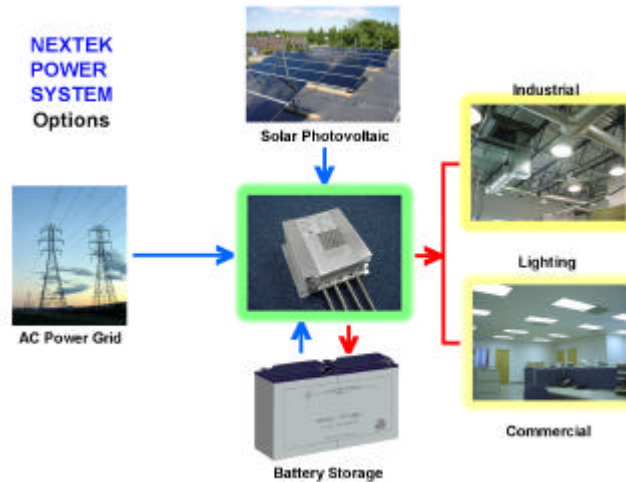


# NEXTEK Power System

## High Efficiency DC Lighting



Nextek Power System is an efficient, hybrid lighting system that reduces energy consumption and costs. It offers flexible energy sources, backup power, and low-cost control.

NEXTEK's power system reduces energy costs by using energy from the lowest cost sources first.

The system uses all available energy from locally generated sources (such as photovoltaic cells) first, then 'fills in' with power from the grid or, when the grid is not available, from batteries.

Control features of the system allow lighting to be more easily connected to occupancy sensors, low-voltage switches, and local or remote energy management systems. The low-voltage control wiring makes it safer and less expensive than traditional switching and control systems.

The Nextek Power System Directly Couples® Nextek high-efficiency DC ballasts to DC power sources. The NPS-1000 takes DC power from solar panels or other DC power source, adds any necessary AC power from the grid, and powers the ballast with highly efficient DC power.

Locations that are ideally suited to the Nextek Power System include:

- One, two, and three story buildings with large, flat roofs.
- Locations operating fluorescent lights, always on during the daytime.
- Businesses that benefit from having the lights stay on during a power failure.
- Occupancy-sensor intensive applications.
- Areas where utility rates or demand charges are high.
- Municipalities where utilities can require load-shedding during peak demand times.

NEXTEK lighting systems are designed to meet the needs of both small and large installations. Any number of power modules can be specified to accommodate any size of electrical demand. Compact modular construction of NPS-1000 contributes to easy wiring and flexible installation layouts.

For more information, see [www.NextekPower.com](http://www.NextekPower.com) or email [info@NextekPower.com](mailto:info@NextekPower.com)

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## High Efficiency DC Lighting



Primary Input Voltage from utility: 208-277 V 50-60 Hz AC

Secondary Input Voltage from local generation: 54.0 VDC

Input Voltage from backup battery: 54.0 VDC

Type of Storage Batteries: Lead Acid, Deep Cycle

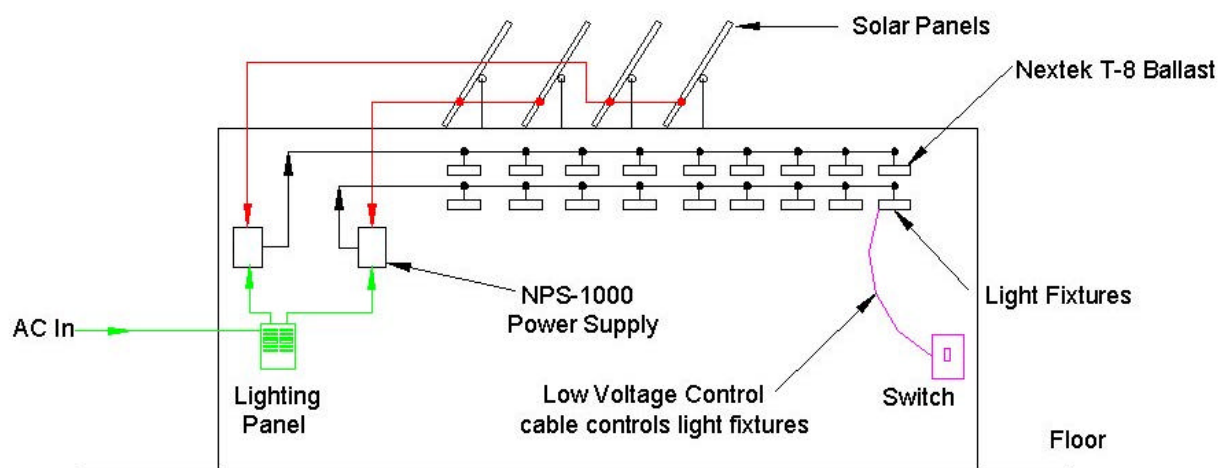
Typical Run Time on Batteries: 1 to 4 Hours

Lighting type: T-8 fluorescent, 4 foot lamps

Switching: Low voltage manual switches or occupancy sensors.

Safety Standards: UL-1012

*Specifications subject to change without notice*



Light fixtures are equipped with high efficiency DC ballasts.

AC from the grid is converted to DC to power the lights.

If solar panels are used, any available DC solar power is used instead of grid power.

Batteries can be added to the system to supply backup power.

Low voltage switches and occupancy sensors can be used to significantly reduce wiring costs and add control flexibility.

For more information, see [www.NextekPower.com](http://www.NextekPower.com) or email [info@NextekPower.com](mailto:info@NextekPower.com)

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