



**Efficient power
for efficient locks**

EcoPower Power Supply

SECURITRON® EcoPower™

Up to 99% Energy Savings

Securitron EcoPower is a highly efficient power supply designed to work with low-power access control devices. Using a patent-pending method, EcoPower reduces power supply standby power consumption to only 8.5mW (0.0085W), a 99% decrease compared to current linear and switching power supplies.

Similar to how a plug-in hybrid car operates, EcoPower utilizes its battery to power the door's low-power electrified lock; it only draws energy from the wall to charge the battery as needed, less than once a day.

Packaged in a small, aesthetic enclosure, EcoPower includes:

- Two outputs (*one for the lock and one for the credential*)
- Battery charger
- Access control inputs
- Fire alarm input with optional fire alarm latching for Canadian installations
- Backup battery with up to 26 hours of backup power

EcoPower is the most efficient, fully featured power supply available today.

Achieve the true energy savings
of low-power electrified locks
when you power them
with EcoPower.

SECURITRON®
ASSA ABLOY

Reducing Total Door Power Consumption

There is a trend in the locking hardware industry towards lower power locking devices. From mortise locks to electric strikes and exit devices, companies have been migrating from high powered solenoid actuators to lower powered options. For example the EcoFlex™ electrified mortise lock from ASSA ABLOY Group brands Corbin Russwin and SARGENT takes what used to be a 500mA current draw and reduces it to a mere 15mA. This 96% reduction in the lock's power consumption is a huge improvement over existing locking devices.

However, as more people move toward low-power locking devices, they overlook what has become now the door's main source of power consumption... the power supply that is sitting back in the IDF closet. Even when you have no power consumption from a fail-secure lock, the power supply is drawing 5+ Watts of power from the wall 24 hours a day, 7 days a week; providing exactly zero benefit to the end user. Enter EcoPower™. Using technology similar to a plug-in electric car, EcoPower utilizes the included battery to provide power to the locking device while maintaining 24+ hours of battery backup in the event of a power failure. While the battery "drives the lock" the power supply enters a sleep mode drawing a mere 0.008W from the wall, a GreenCircle Certified 99% reduction even when compared to highly efficient switching power supplies. When the

battery reaches about 50% of its usable capacity, EcoPower wakes up, recharges the battery, and then goes back to sleep. During this recharge phase, EcoPower draws only 2W from the wall - significantly less than a traditional power supply draws, even without powering a locking device.

What happens when the battery reaches its end of life? EcoPower is designed with a microprocessor on board that detects when the battery is at the end of its life and notifies the end user that it is time for a battery replacement. If the battery is removed, EcoPower is still a fully functional power supply capable of powering both the low powered lock and card reader, even in the absence of the battery. The only thing that is lost is the ability to go to sleep in a Fail-Secure application where the lock is powered continuously. However, EcoPower still provides over a 70% reduction in power consumption even in this scenario. In a Fail-Safe scenario, while the lock is unpowered, EcoPower will continue to enter sleep mode and reduce power consumption significantly.

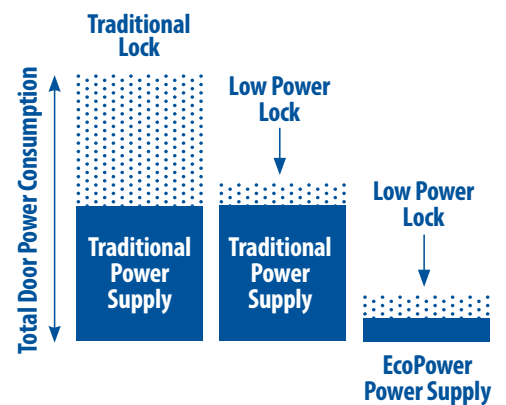
Whether you are working on a net-zero energy building, or simply a building where the end user cares about dollars and cents; EcoPower when paired with a low power locking device such as the EcoFlex mortise lock from ASSA ABLOY can reduce total door power consumption

by 99% when compared to the traditional solenoid based alternatives.

The best part? This savings can be achieved with zero extra out of pocket cost to the end user. Every kWh saved is money in the end users pocket.

**Think cutting edge.
Think EcoPower.**

*GreenCircle Certification Numbers 14-0253, 14-0254, 14-0256, and 14-0258



Total door power reduced from 20W to 0.3W

"The power supply has become the door's main source of energy consumption."

Every kWh saved is money in the end users pocket.

Consider the Impact of Specifying this Energy Saving System for 1,000 Stairwell Doors Across Multiple Facilities

99% Energy Savings

Annual potential savings for 1,000 doors

210,000 lbs CO ₂ reduction	20 cars Removed from the road	393 trees Planted each year	\$19K Energy savings (\$19.72 per door)
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SECURITRON® EcoPower™ Power Supply

Although it has the aesthetics to be mounted at the door, the low current nature of EcoPower allows for wire runs exceeding 1,000 ft of 22 gauge cable with negligible voltage drop. This allows for multiple EcoPower to be centrally located in an electrical closet while reducing cabling costs. In new construction, electrical closets can be spaced further apart freeing up valuable floor space. The status LEDs located on the front cover allow for rapid identification of issues even with multiple products in close proximity.

FAQs

How long will the battery last?

– In fail-safe mode the battery will last 3 years...fail-secure will last longer

What happens if the battery dies?

- Power supply reverts to “traditional” mode (powers the lock, doesn’t go to sleep when powering the FSA lock)
- Audible “chirp” reminder (similar to fire alarm) to change battery

How do we handle Fire Alarm latching in Canada?

- Latching dipswitch must be flipped to reset latch
- Pinhole reset on front cover eliminates the need to enter the unit to flip the dipswitch

How much battery back-up time is provided?

– 10.8Ah battery provides more than 24 hours depending on usage and battery health

How can we support integrated Wiegand products?

– 2 outputs, 1 always on for reader, 1 intermittent to power locks

APPLICATIONS

Securitron EcoPower works with low powered locking devices such as Sargent and Corbin Russwin EcoFlex mortise locks, as well as integrated locks such as the SE-LP10 in both fail-safe and fail-secure configurations.

EFFICIENCY

The only thing better than being highly efficient, is actually disconnecting from the wall when power is not needed. EcoPower doesn’t fully disconnect from the wall, but it does reduce power consumption to less than 10mW. Compare this to a traditional power supply that can draw 5W or more, even when the attached locking device is not powered. EcoPower, when paired with a low power locking device such as EcoFlex, can save \$19 per fail-safe door per year in energy costs.

BATTERY BACK-UP

The cost of EcoPower includes an 800mAh sealed lead acid battery. This battery can energize a low powered lock for over 24 hours continuously.

LOW COST

With all of these features, you’d think surely EcoPower is expensive. On the contrary, EcoPower has the same cost as a traditional 1 Amp power supply while providing on-board access control and fire alarm interfaces as well as including the backup battery at **no extra cost**. This means that every dollar saved using the EcoPower solution is a dollar truly in the end users pocket. There is no pay back period because there is no price premium.

MagnaCare

The EcoPower™ Power Supply is covered by Securitron’s MagnaCare® lifetime replacement no fault warranty. No registration is required. The product will be replaced forever, for any reason, including but not limited to installation error, vandalism, or act of God. Replacement product is shipped at Securitron’s expense next day air if needed.





EcoPower 0.5A Power Supply

EcoPower™ Power Supply

Certifications

- UL 294 (6th Edition) listed
- UL 603 Listed
- ULC S533 Listed
- CE Certified
 - EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
 - EN 55022: 2010
 - EN 55024: 2010
 - EN61000-3-2: 2014
 - EN61000-3-3: 2013
- RoHS Compliant
- REACH Compliant
- GreenCircle Certified

Electrical

- Input voltage: 100-240V
- Output voltage: 12V
- Standby power: <10mW @ 115V, <20mW @ 230V
- Output current: 0.5A peak, 0.1A continuous
- Includes one (1) 800mAh sealed AGM lead acid battery

Dimensions

4"L x 4"W x 3 3/4"D enclosure

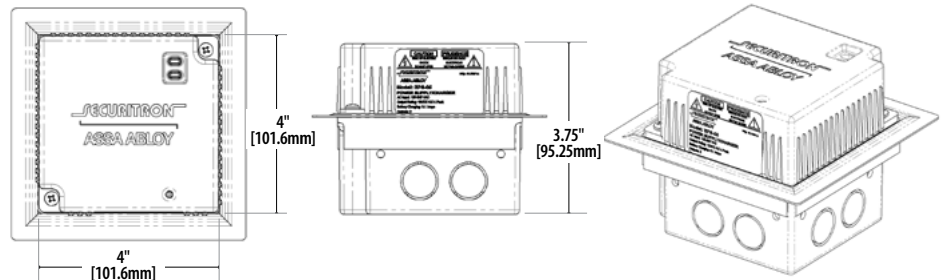
Shipping Weight

1.7lbs [0.77kg]



PRODUCT FEATURES AND BENEFITS

- Extremely low power consumption, only 8.5mW standby power consumption with a 115V input
- Included battery provides up to 26 hours of backup
- Universal input voltage capabilities (100-240VAC)
- Aesthetic design allows for convenient installation near the lock
 - Surface mounted
 - Recessed into drywall
 - Use either the factory box or an existing UL Listed double gang junction box
- Multiple mounting options
 - Surface mounted
 - Recessed into drywall
 - Use either the factory box or an existing UL Listed double gang junction box
- Reduced low current wire runs and wire run length provides additional cost savings
- Fire alarm input dry contact (NO or NC)
- Access control input dry contact (NO or NC)
- One (1) battery included
- Supports fail-safe and fail-secure lock configurations
- LED troubleshooting
- Built in battery end-of-life notification system
- MagnaCare® Lifetime Replacement No Fault Warranty*



Up to 99% Energy Savings

Ideal for use with EcoFlex™ Locks.

Achieve 99% in power energy savings with EcoPower compared to current switching power supplies. Combine with an EcoFlex Mortise Lock from ASSA ABLOY Group brands Corbin Russwin and SARGENT for up to 99% energy reduction in total door power consumption.



SMC-068-0915

*Battery not covered under MagnaCare Warranty

