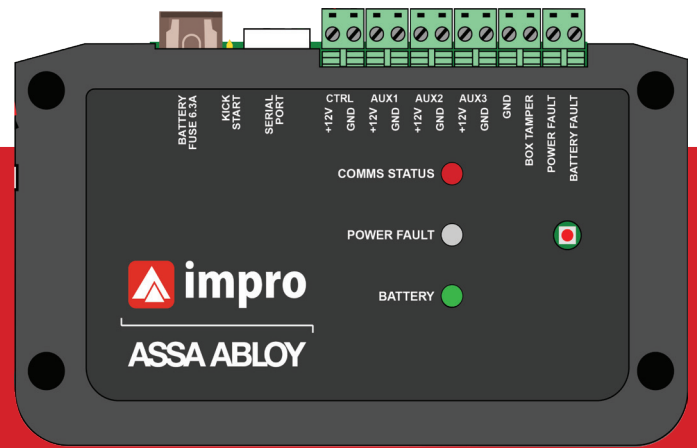


Intelligent Power Management

Smart power management with oversight for reliable access control



Protection:

Dedicated controller power prevents peripheral disruptions.

Flexibility:

Three auxiliary outputs simplify wiring and power management.

Monitoring:

System detects and alerts power faults in real time.

Auditability:

Logged power events provide a full audit trail.

PoE-Powered:

Enables flexible, mains-free installation options.

WHO SHOULD USE THE INTELLIGENT POWER CONTROL?

This product is ideal for access control system administrators, facility managers, IT and security professionals who need reliable, efficient power management with real-time monitoring and oversight to ensure seamless, secure access control operations

Product Benefits

Power Protection & Distribution:

- Dedicated 12VDC channel for controller protection.
- Auxiliary channel provides 3 additional 12VDC connections for peripherals.
- Channels are digitally fused for rapid response and auto-recovery.

Power Monitoring & Fault Detection:

- Battery presence, short, low voltage & recovery detection.
- Input Power failure, recovery and overvoltage warning.
- Overcurrent & recovery detection on both controller and auxiliary channels.

System Visibility & Reporting:

- Comprehensive status monitoring & event reporting.
- Status LED indicators visible from a distance on the enclosure exterior.

Installation & Infrastructure Efficiency:

- PoE variant eliminates the need for power points at each door and leverages any mains backup solution already present.
- Power supply enclosed in a high grade, flame retardant, polycarbonate housing, eliminating exposure to mains power.
- Electronic fuses on 12V output channels recover automatically once fault is removed.

The Intelligent Power Supply is a highly efficient, smart power management solution designed to streamline access control installations. It ensures reliable power delivery while offering advanced monitoring and safety features that enhance overall system performance and longevity.

The solution is available in two variants: an intelligent power supply version and a PoE-powered version. The intelligent power supply variant provides direct AC input, converting it to regulated DC output with advanced power management. It ensures consistent power delivery and integrates seamlessly with access control systems. The PoE-powered version further simplifies installation by drawing power directly from a network switch, eliminating the need for separate power cabling. This makes it an ideal solution for deployments requiring minimal infrastructure changes.

Equipped with multiple fused outputs, the module distributes power efficiently to access control devices such as controllers, locks, and readers. The use of digital fuses enhances protection, ensuring instantaneous response to overcurrent conditions, thereby preventing damage to connected devices.

This adds an extra layer of security and reliability to the access control ecosystem. Integrated monitoring and event reporting provide real-time power status updates, ensuring immediate visibility into the health and functionality of the power supply. This proactive approach allows system administrators to detect power fluctuations, failures, or anomalies before

they impact operations. Notifications can be sent to alert relevant personnel, enabling swift intervention to maintain system uptime and security. This level of oversight reduces downtime and extends the lifespan of connected components by ensuring they receive stable and appropriate power levels. The enclosure is constructed from robust steel, ensuring durability and protection in various installation environments. Designed for both wall and rack mounting, it offers flexibility in placement, making it suitable for a wide range of access control applications. The design prioritizes ease of installation and maintenance, with accessible connections and clear labelling to simplify setup and servicing.

The Intelligent Power Supply seamlessly integrates with access control software solutions, allowing administrators to monitor power settings remotely. This remote management capability minimizes the need for on-site interventions, improving operational efficiency and reducing maintenance costs. Additionally, firmware updates can be deployed without system downtime, ensuring the module remains up to date with the latest enhancements and security improvements.

By combining intelligent power management, real-time monitoring, and durable construction, the Intelligent Power Supply offers a reliable and efficient solution for powering access control systems. It enhances overall system resilience, improves maintenance workflows, and ensures uninterrupted security operations, making it an essential component in modern access control infrastructures.

Specifications - Intelligent Power Management

Model Name	Intelligent Power supply with Distributed Controller Terminal block mains connection	Intelligent Power supply with Distributed Controller IEC320 (kettle plug) mains connection	PoE++ Intelligent Power Supply with Distributed Controller RJ45 connection
Part number(s)	HCD901/911	HCD902/912	HCD903/913
Colour	Black	Black	Black
Dimensions (d-w-h)	8.2cm x 38.3cm x 31.3cm	8.2cm x 38.3cm x 31.3cm	8.2cm x 38.3cm x 31.3cm
Approximate product weight	3.60kg	3.60kg	3.50kg
Material	Powder Coated, Mild Steel housing	Powder Coated, Mild Steel housing	Powder Coated, Mild Steel housing
Electrical Specifications			
Input voltage	100-230Vac via Terminal block	100-230Vac via IEC320	802.3bt Type 4 compliant 37 to 57 V
Controller Output	12VDC / 2,5A, resettable fuse	12VDC / 2,5A, resettable fuse	12VDC / 2,5A, resettable fuse
Auxiliary Channel - Power Outputs	3 x 12VDC	3 x 12VDC	3 x 12VDC
Fused Auxiliary Channel Current	2,5A, resettable fuse	2,5A, resettable fuse	2,5A, resettable fuse
Battery Charging	Constant Current, Deep Discharge Protected, Reverse Polarity Protected	Constant Current, Deep Discharge Protected, Reverse Polarity Protected	Constant Current, Deep Discharge Protected, Reverse Polarity Protected Only connect a battery or locks if input power is PoE++
Low Battery Cut-out	at below 10V	at below 10V	at below 10V
Monitoring Events and Audit Log			
Status LED Conditions	Battery Fault, Input Power Fault, Power supply communications		
Fault Condition - Battery disconnected/missing	Fuse Blown / Battery Missing; Battery OK		
Fault Condition - Short battery	Battery Short; Battery OK		
Fault Condition - Battery voltage low	Battery Low; Battery OK		
Fault Condition - Power Failure	Input Power Failure; Input Power Recovery		
Fault Condition - Excessive load on Controller Channel	Controller Current High; Controller Current Normal		
Fault Condition - Excessive load on Aux channel	Auxiliary Current High; Auxiliary Current Normal		
Power Detection - Unit power up with PoE++	N/A	N/A	PoE High
Environmental Specification			
Operating temperature	-25° to +50°C or -13° to +122°F		
Storage temperature	-40 ° to 85 °C or -40° to +176°F		
Operating humidity	0 to 90% relative humidity non-condensing (at +40°C / +104°F)		
Ingress Protection	IP20	IP20	IP20
Certifications			
Certifications	CE (EU), UK (CA), RoHS 3 compliant with UL available upon request		