

Atlas Solutions

Atlas Power Electrical Control Sequencers & Modules



Protecting critical electronics is vital to not only the functionality of the system but also to the reputation of the system designer and product manufacturer. Atlas Sound is proud to expand on their huge assortment of commercial sound products with the introduction of a full line of products designed to protect critical system electronics.



Atlas Power products are designed to meet any system design scenario and deliver the features and protection that system designers and clients require.



3 and 6 stage sequencers that can power equipment ON/OFF with the touch of a button without an in-rush of current. Dual stage protection circuitry, abnormal AC line indicator, and Extreme Voltage Shutdown (EVS) for changes in voltage and current. Most models have voltage and current monitoring and also offer conditioning with EMI and RFI filters.



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ECS-6RM

- 6 Sequencer Timing Sections, 1, 3, or 6 Second Intervals
- 6 Independent ECM Connections
- 6 Independent Contact Closures
- Front Panel Digital AC Mains Voltage and Current Meter
- External Switch Sequence Trigger Activation
- External DCV Sequence Trigger Activation 5-24VDC
- Front & Rear Mounted XLR Connector for 12VDC Gooseneck LED Lamp, 1 AP-GNL18 Included
- Abnormal AC Line Voltage Indicator for Voltages Between 102V-107V or 128V-132V
- Extreme Voltage Shutdown (EVS) Below 102V or Above 132V AC Line



The ECS-6RM modular system has been designed to meet most installation requirements for AC power distribution, equipment power conditioning and surge suppression protection. The compact 1 RU unit features six sequential timing sections that can be activated via the unit, or remotely. Up to three ECS-6RM units can be daisy chained together with independent trigger timing settings giving you a total of 18 sequence triggered outlets. The ECS-6RM unit is the activation controller/monitor portion of the system and requires a 120V AC Mains ECM (Electrical Controlled Module) module for each triggered output. A variety of remote ECM AC modules are available to meet different installation requirements.

The ECS-6RM can also monitor up to six independent 20A AC main lines, both voltage and current readings can be viewed via the laboratory grade meters on the front panel. The ECS-6RM has built in intelligence

that monitors the AC lines and will inform you of potentially damaging voltages. If an extreme voltage swing occurs above 128VAC or below 101VAC, the Extreme Voltage Shutdown (EVS) protection circuit will automatically turn all remote ECM modules off until the system is manually reset. The EVS feature can be defeated if required.

The ECS-6RM also features 6 sequenced independent relay contacts. The activation of the contacts work in parallel of the corresponding ECM triggered outputs. Activation can be done via the Front panel momentary switch, RMT V input (5-24VDC), External switch, or via the optional Remote ECS-KSW6 key switch.



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ECS-3

- 3 Sequencer Timing Sections Fixed 3-Second Intervals, 6 Seconds Total
- 9 Total Outlets Are Provided
 - 6 Rear Panel Outlets Are Sequenced In Three Steps
 - 2 Front Panel and 1 Rear Panel Unswitched Convenience Outlets
- Radio Frequency Interference Noise Filtering
- Electromagnetic Interference Filtering
- Dual Clamping Spike & Surge Suppression, DCS Circuitry
- Front Panel Digital AC Mains Voltmeter
- LED Indication of Reversed "Live" and "Neutral" Wiring
- Abnormal AC Line Voltage Indicator for Voltages Between 102V–107V or 128V–132V
- Extreme Voltage Shutdown (EVS) Below 102V or Above 132V AC Line
- Circuit Breaker Protection @ 15A Indicated by "Breaker Open" Indicator
- Front Mounted Pull-out LED Light With 2-Position Dimmer
- Rear Mounted XLR Connector for 12VDC LED Lamp
- External Switch Sequence Trigger Activation
- External DCV Sequence Trigger Activation 5-24VDC
- 24VDC Sequence Trigger Output for Optional External AC Outlet



The ECS-3 has been designed to meet most installation requirements for AC power distribution and equipment power protection. The 15A compact 1 RU unit features three sequential timing sections that can be activated via the unit, or remotely. Front panel activation is via a momentary switch, while rear activation is via a momentary contact closure, or by 5-24VDC trigger feed. AC Mains Voltage can be monitored via the front panel from the precision Digital Volt Meter. If a 15A AC Mains power source is not enough to meet the amperage demand of your system, the ECS-3 provides a sequenced 24VDC output that can be used to trigger other devices such as the Atlas Power ECM-20SH 20A stand alone AC power module.

The ECS-3 also features noise filtering for unwanted Radio Frequency Interference (RFI) that are commonly introduced into the AC lines by nearby radio transmitters or wireless products. EMI filters are incorporated to reduce noise from Electromagnetic Interference (EMI) that is generated by items such as electric motors and switching power supplies.

The ECS-3 features Dual Clamping Suppression technology (DCS) to protect against AC spikes and unstable AC Mains voltage. If a spike intrudes the AC system, the ECS-3 incoming AC Mains has special suppression circuitry to eliminate the unwanted energy and in the unlikely event of any energy getting pass the first stage, each sequenced output section has redundant DCS circuitry clamping the unwanted energy.

The ECS-3 has built-in technology to monitor and report the incoming voltage and alert the user of any fluctuations in voltage above 128VAC or below 107VAC and under extreme variances in the AC Mains, it will shut the power to the equipment OFF. If an extreme voltage swing occurs above 132VAC or below 101VAC, the ECS-3 Extreme Voltage Shutdown (EVS) protection circuit will automatically activate and turn all outlets OFF until it is manually reset.

Electrical Control Modules

The Atlas Power Electrical Control Modules have been designed to offer flexibility and to meet a variety of AC power management requirements. Some ECMs can be used as standalone units or in conjunction with an Atlas Power Electrical Control Sequencer and others are designed to be used exclusively with an Atlas Power ECS.

If AC outlets are required to be placed within the same rack as the ECS-6RM, the ECM-RACEWY6 raceway can house up to six ECM-20 or ECM-20M modules and six independent 20A AC 120V lines. For

remote locations where single outlet turn On/Off and monitoring are required the ECM-15SH (15A) and the ECM-20SH (20A) can be a perfect fit.

ECMs connect to any ECS using any 5 conductor cable and can be placed up to 1000ft from each other. Each ECM module has an input DC voltage trigger of 5VDC, plus three low voltage data port connections for AC Mains monitoring. All ECM modules offer different and unique packaging designs and mounting options to assure they meet job requirement

ECM-20SH

- 2 Outlets, 20A
- RFI / EMI Noise Filtering
- Spike & Surge Suppression
- Extreme Voltage Shutdown (EVS) Below 102V or Above 132V AC Line
- AC Fault indicator
- Fuse Protection @ 20A Slow Blow
- Manual Bypass Switch
- Incoming AC Presence LED
- Active Outlet LED
- Status Signals Output for Voltage and Current



The Atlas Power ECM-20SH and ECM-15SH are 120V 60Hz AC. Single Housing (SH) Power Conditioners and AC Spike Suppressors that are designed to be used as standalone units or in conjunction with an Atlas Power Sequence controller, ECS-6RM or the ECS-3, up to 1000ft away.

Both units feature noise filtering for removing unwanted Radio Frequency Interference (RFI) and EMI filters to reduce noise from Electromagnetic Interference (EMI) caused by items such as electric

ECM-15SH

- 2 Outlets, 15A
- RFI / EMI Noise Filtering
- Spike & Surge Suppression
- Extreme Voltage Shutdown (EVS) Below 102V or Above 132V AC Line
- AC Fault Indicator
- Fuse Protection @ 15A Slow Blow
- Manual Bypass Switch
- Incoming AC Presence LED
- Active Outlet LED
- Status Signals Output for Voltage and Current
- Compact to Fit Behind Flat Screens



motors or switching power supplies. If an AC spike or surge occurs, the both units also incorporate Clamping Suppression technology to prevent the unwanted energy from getting into your AV system. Other features include a Manual Bypass Switch, Incoming AC presence LED, Active LED and an AC Fault indicator. When interfaced with the ECS-6RM Sequencer controller, Extreme Voltage Shutdown Circuitry (EVS) is active, along with Voltage and Current status readings.



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ECM-20M & ECM-20

- Manual/Auto ON/Off Switch
- Incoming AC Present LED
- Active LED
- AC Fault LED (ECM-20M Only)
- Clamping Spike & Surge Suppression
- AC Mains Voltage & Current Monitoring (Voltage only for ECM-20)
- EMI & RFI Filtering (ECM-20M Only)



Atlas Power models: ECM-20 (20-Amp), ECM-20M (20-Amp) and ECM-30 (30-Amp) feature AC Spike and Surge Suppression plus AC Mains Voltage monitoring, EVS circuitry, and Remote Activation (up to 1000' feet away) when used in conjunction with the optional ECS-6RM controller.

In addition, the ECM-20M features noise filtering for removing unwanted Radio Frequency Interference

(RFI) and EMI filters to reduce noise from Electromagnetic Interference (EMI) caused by items such as electric motors or switching power supplies.

For rack mounting and direct connection to AC mains, choose from raceway models: ECM-RACEWY6 (6 module raceway), ECM-RACEWY3 (3 module raceway) or ECM-RACEWY1 (single module raceway).

Power Conditioners & Distribution Units

AP-S15L & AP-S15

- 9 Total Outlets
 - 8 Rear Panel Switched Outlets and 1 Front Panel Unswitched Outlet (AP-S15L)
 - 6 Rear Panel Switched Outlets, 2 Rear Panel Unswitched Outlets, and 1 Front Panel Unswitched Outlet (AP-S15)
- Radio Frequency Interference Noise Filtering
- Electromagnetic Interference Filtering
- Circuit Breaker Protection @ 15A
- Spike Suppression up to 6000V
- Front Mounted Pull Out LED (AP-S15L)
- Rear Mounted XLR Connector for 12VDC LED Lamp (AP-S15L)
- AC Fault Indicator (AP-S15L)

AP-S20

- 9 Total Outlets
 - 7 Rear Panel Switched Outlets
 - 1 Rear Panel Unswitched Outlet
 - 1 Front Panel Unswitched Convenience Outlet
- Radio Frequency Interference Noise Filtering
- Circuit Breaker Protection @ 20A
- Spike Suppression up to 6000V
- AC Protect Active Indicator



AP-S15L



AP-S20

The AP-S series of AC power distribution and equipment power protection products has been designed to meet the needs of various installation types. Each model offers power management control, noise filtering, and protection against abnormal voltages, electrical spikes and surges, making them the most compact and effective power management protection systems on the market today.

All models feature noise filtering for Radio Frequency Interference (RFI), that is commonly introduced into AC lines by nearby radio transmitters or wireless

products. The AP-S15 and AP-S15L also feature filtering for Electromagnetic Interference, that is generated by items such as electric motors and switching power supplies. The benefit of these filters can be seen on video products or audibly by reducing static pops and external signal interference.

The protection circuitry in the AP-S product series is very fast and can suppress unwanted electrical energy up to 6000V or 3000A within a nanosecond of detection and sustain the suppression for up to 2 milliseconds, thus ensuring virtually trouble free operation and protection.



AP-C15D

- 10 Total Outlets Are Provided
 - 8 Rear Panel Outlets
 - 2 Front Panel and 1 Rear Panel Unswitched Convenience Outlets
- Radio Frequency Interference Noise Filtering
- Electromagnetic Interference Filtering
- Dual Clamping Spike & Surge Suppression, DCS Circuitry
- Front Panel Digital AC Mains Voltmeter
- LED Indication of Reversed “Live” and “Neutral” Wiring
- Abnormal AC Line Voltage Indicator for Voltages Between 101V–107V or 128V–132V
- Extreme Voltage Shutdown (EVS) Below 101V or Above 132V AC Line
- Circuit Breaker Protection @ 15A Indicated by “Breaker Open” Indicator
- Front Mounted Pull-out LED Light With 2-Position Dimmer
- Rear Mounted XLR Connector for 12VDC LED Lamp (AP-GNL18)



The AP-C15D is designed to meet most installation requirements for AC power distribution and equipment power protection. The 15A compact 1RU unit AC Mains Voltage can be monitored via the front panel from the precision Digital Volt Meter.

The AP-C15D features noise filtering for eliminating unwanted Radio Frequency Interference (RFI) that can be introduced into the AC lines by nearby radio transmitters or wireless products. EMI filters are also incorporated to reduce noise from Electromagnetic Interference (EMI) generated by items such as electric motors and switching power supplies.

The Abnormal Voltage indicator on the front panel will flash if the AC Mains is between 101VAC and

107VAC or 128VAC and 132VAC. This is to inform you that a surge occurred and may have damaged voltage sensitive equipment. If an extreme voltage swing occurs above 132VAC or below 101VAC, the AP-C15D Extreme Voltage Shutdown (EVS) protection circuit will automatically activate and turn all outlets OFF until it is manually reset.

The AP-C15D offers intelligent power management control, along with noise filtering and spike/surge protection making it the most compact, effective power management protection system on the market today.

Atlas Vertical Power Strip Models

- Multiple Outlet Spacing That Accepts Most Power Supply Sizes And Pin Orientation To Achieve Maximum Use Of AC Outlets
- Two AC Outlet Orientations: "In Line" And "90 Degree To Chassis"
- 15A Or 20A Current Load Models
- Lighted Main Power Switch
- Circuit Breaker Protection
- RFI Filtering
- AC Protect Indicator
- UL, cUI Listed

AP-2410-20S

AP-4820-15S

This family of products includes multiple models to meet many types of installation and AC power distribution requirements in a compact, space-saving design. Both 15A, 1875W and 20A, 2500W models are available in lengths of 24", 48", and 72".

The Atlas Power Vertical Power Strips offer complete power management, multiple outlet spacing and outlet orientations, and RFI filtering along with spike/surge protection to make them the most compact, effective power management protection systems on the market today.

Models include AP-2410-15S, AP-2410-20S, AP-4820-15S, AP-4820-20S, AP7230-15S, and AP-7230-20S

Additional Atlas Power Accessories

ECM-3BP ECM-RACEWY6 Module Blank Cover Plate

ECM-ACIN 140", Stranded 12 gauge UL wire for wiring the ECM-20/ECM-20M Modules

AP-GNL18 16" XLR Connector Gooseneck LED Lamp for ECS-6RM, ECS-3, AP-S15L, and AP-C15D

ECS-KSW6 Single gang electrical cover plate used in conjunction with the ECS-6RM for remote channel activation.

ECM-RACEWY6 Housing that supports up to six ECM-20 or ECM-20M modules featuring dual ½" and ¾" knockouts and 4 AC inlet locations.

ECM-RACEWY3 Housing that supports up to three ECM-20 or ECM-20M modules featuring dual ½" and ¾" knockouts and 4 AC inlet locations.

AP-7230-20S



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