



ETA
SYSTEMS™
Leading by Design.™

ETA-15SH

AC Power Conditioning and Suppression Module



APPLICATIONS

The ETA-15SH is designed to be flexible for use in a variety of applications. When used with a sequenced controller it allows the turning of equipment On and Off from a remote location to save energy and to reduce an in-rush of current that stresses the main AC line. It also can be used as a standalone unit for protection against voltage surges and applies EMI/RFI filtering to clean up the AC power at the load source. The following are just a few examples of applications in which the ETA-15SH can be used:

- Restaurants
- Houses of Worship
- Schools
- Home Theaters
- Office Buildings
- Sports Bars
- Industrial Facilities

KEY FEATURES

- 2 Outlets, 15A
- EMI & RFI Filtering
- Spike & Surge Suppression, DCS Circuitry
- Extreme Voltage Shutdown (EVS) Below 101V or Above 132VAC 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

GENERAL DESCRIPTION

The ETA-15SH is a 120V, 60Hz Electrical Control Module (ECM), 15A Single Housing (SH) Power Conditioner and AC Spike Suppressor that is designed to be used as a standalone unit or in conjunction with an ETA Sequence Controller, ETA-ECS6RM or ETA-ECS3 up to 1000' away. The ETA-15SH is one of four Electrical Control Modules from ETA that can be used in conjunction with the sequencers.

The ETA-15SH features noise filtering for unwanted Radio Frequency Interference (RFI) and Electromagnetic Interference (EMI) filters to reduce noise from such items as electric motors or switching power supplies. The benefit of these filters can be seen on video products or audibly by reducing static pops and external signal interference. If an AC spike or surge appears, the ETA-15SH also incorporates 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 ETA-ECS6RM Sequencer Controller, Extreme Voltage Shutdown (EVS) Circuitry is active, along with Voltage and Current status readings.



ARCHITECT & ENGINEER SPECIFICATIONS

Power conditioner shall be ETA Systems model ETA-15SH. Power conditioner shall have 2 outlets. Power conditioner shall include Radio Frequency and Electromagnetic filtering to reduce noise in AC lines and AC surge and spike protection technology. Power conditioner shall have fuse protection at 15A and shall use a slow blow style fuse. Power conditioner shall have a manual bypass switch and LEDs indicating Incoming AC, Active, and AC Fault. When used in conjunction with ETA Systems ETA-ECS6RM or ETA-ECS3, power conditioner shall be able to automatically shut down outlets during Extreme Voltage events when the voltage is above 132VAC or below 102VAC. Power conditioner shall include mounting hardware for mounting to walls or other solid surface. Finish shall be textured black epoxy and dimensions shall be 8.5"W x 5"D x 1.75"H (215.9mm x 127mm x 44.5mm).

SPECIFICATIONS

Type	AC Power Conditioner Suppression Module
RoHS Compliant	Yes
Safety Listings	ETL (UL 60065 Standard)

Front Panel

Outlets	Two, 15A
Indicators	Active (Green), Fault (Red), Incoming AC (Red)
Manual Override	Slide Switch
Connectors	5 Position Phoenix Euro Block Style
Hard Switch	
Remote Trigger	SPST Contact
Status Signals	Output for Voltage and Current Data (All data signals are low voltage and current)
Spike & Surge Suppression	H-N, N-G, H-G
Fuse Protection	15A Slow Blow
Power Cord	9' (3 Meters), 14-gauge

Technical Data

Current Rating	15 amps
Power Consumption	500 milliwatts
Operating Voltage	102 - 132VAC
Power Requirements	120V 60Hz
Extreme Voltage Shutdown	(EVS) Below 102V or above 132V AC Line (When used with ECS-6RM)
DCV Remote Trigger	5-24DCV

High Voltage Surge Protection	Trigger at 133VAC, 1ms typically (When used with ECS-6RM)
Low Voltage Surge Protection	Trigger at 101VAC, 1ms typically (When used with ECS-6RM)
Spike and Surge Suppression	Hot to Neutral, Hot to Ground, Neutral to Ground
Spike Protection Modes	Circuitry on Incoming AC Mains
Min. Spike Clamping Voltage	460 VRMS @ 3,000 amps
Max. Spike Clamping Voltage	6kV
Max. Spike Clamping Resp. Time	<1 nanosecond
Spike Clamping Voltage @ 100A	1,250Vp for 20µs
Maximum Surge Current	6,500A
Energy Rating	600 Joules
Noise Attenuation EMI/RFI Sequencer	10dB @ 10 kHz, 40dB @ 100 kHz, 100dB @ 10MHz
Temperature Range	5° to 35° C
Humidity Range	5% to 95% R.H.

Mechanical

Chassis Finish	Black
Mounting	Side Bracket Adjustable
Dimensions	Height 1.75" (45mm) Width 8.5" (216mm) Length 5.0" (127mm)
Weight	4.5 lbs (2.04kg)