



Encompass LT

300/600W Fire Panel Extension Amplifier Cabinet



Key features

- Signal conditioning optimized for maximum power and intelligibility for medium power speaker arrays
- Smart self-protection, speaker monitoring and fault reporting
- Access to back-up power
- Continuous full-volume AC operation while switching to/from DC backup power
- 1V or 25/70/100V input
- Volume control and test tone button
- Network Addressable
- Audio over IP

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Overview

Engineered and designed with the latest technology in mass notification control systems, the Encompass LT Amplifier Cabinet is optimized to produce clear and authoritative voice commands with up to 600W of available power.

The cabinet automatically switches to the best power source, performs self-diagnostics, and reports status to the outside world through industry-standard Form C relay fault reporting. Packaged in a low profile NEMA 1 enclosure with a locking door, the Encompass Amplifier Cabinet is perfect for indoor applications.

When making announcements, the HyperSpike® Encompass Amplifier Cabinet responds at a moments notice and will continue to broadcast as long as required. With best in class response time and thermal fold-back capabilities, your message is broadcast regardless of its length.



IP Module Specification	
Ethernet Interface	RJ45 100/100 Mbit Auto Detect (IPv4 and IPv6 Capable)
Network Configuration	Automatic IP Configuration on Open Networks
User Interface	Graphical User Interface for Setup and Control
Digital Audio Formats	MP3 CBR/VBR, Up to 320kbps, 8.48kHz Sample Frequency AAC-HE (AAC, AAC plus, AAC plus V2) PCM Linear 16bit @8, 16, 22.05, 24, 32, 44.1, 48 kHz G.711 / G.722 / GSM / Opus
Emergency Notification Compatibility	Stored Message Playback Auto Registration with Common ENS Platforms InformaCast, Syn-Apps, Other*
Health and Status (Visual)	LED Status Lights – Physical Reset Button
Security	HTTPS Secure Connection
IP Addressing	DHCP / Static
Internal Track Storage	1 GB storage

* Contact HyperSpike® for more details



Cabinet Specifications		
Electronic Cabinet Dimensions	27.25" T x 17.25" W x 7.5" D	
Electronic Cabinet Weight	53 lbs max (not including batteries)	
Battery Weight	Various (based on model and standby power requirements)	
Cabinet Mounting	Pedestal\Pole\Wall Mounting Kits	
Audio Interface		
Audio Activate Input	24VDC nominal relay closure	
Audio Enable	Activate Input Active AND Line-in Signal above Detect Threshold	
Audio Input	1 VRMS or 25/70/100 VRMS	
Trouble Outputs	Form C dry contact relay closure	
Output Channels	1 or 2	
Output Wiring	Min 22 AWG per channel (see manual)	
Power Interface – Designed with Intelligent Power Switching Technology		
Primary Input Voltage	90 to 240 VAC; 50 to 60 Hz Single-phase (Universal AC/Auto-switching)	
Output Power	300W (avg), 600W (peak)/channel	
Standby Time	24-72 hrs (Based on battery size and use case)	
AC Current Rating	300W	5A
	600W	10A
Battery Charger (AC Powered)	3A Smart Charger	
DC Back-up Voltage	24V ± 3V, 24V Nominal Battery	
Batteries	Customer Supplied (Recommend AGM Batteries – see manual for details)	
Amplification		
Digital Signal Process	Optimized Acoustic Performance (Filtering, EQ, Compression, Limiting, etc.)	
Frequency Response	100 Hz – 10 kHz	
Amplification	Class D	
Efficiency	Greater than 78% at full load on AC Power Greater than 82% at full load on DC Power	
Thermal Protection	Yes – with thermal foldback technology	
Short Circuit Protection	Yes	
Environment		
Operating Temperature	0° C to 40°	
Electronic Cabinet Rating	NEMA 1	
Transient Protection	Built-in Cabinet Transient Protection	
Part Numbers		
90250A-801	Encompass LT 300W Cabinet	
90250A-802	Encompass LT 600W Cabinet	
90272A-801	Encompass LT 300W Cabinet w/ IP	
90272A-802	Encompass LT 600W Cabinet w/ IP	

Architect and Engineer Specifications

The Electronics shall be: One (1) amplifier cabinet, with terminations and all components fully assembled and tested; Universal AC/Auto-switching (90 to 240 VAC; 50 to 60 Hz Single-phase) power supply. The electronic controls shall operate on 90-240 AC primary power input as well as 24V DC power backup. Audio output power shall contain thermal fold back capabilities and should be __W and have a maximum AC current draw of up of __ Amps.

The Amplifier Cabinet shall have a NEMA 1 rating and operate within a temperature range of 0°C to 40°C.

