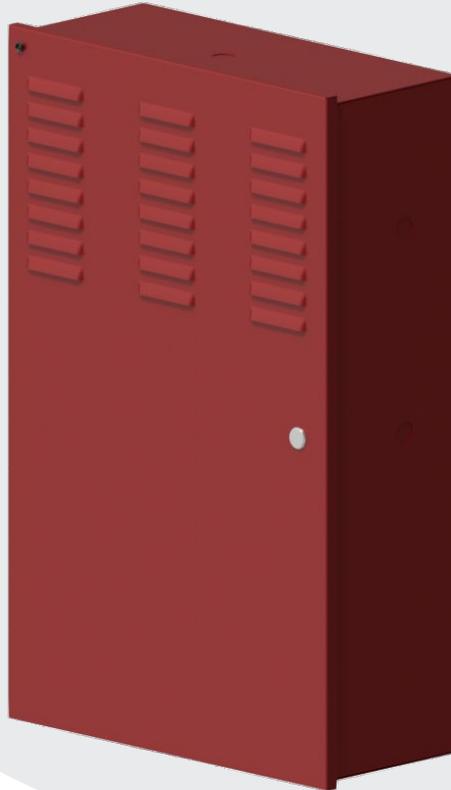


ENCOMPASS LT 2 (*FIRE*)

Amplifier for Fire-Protective Signaling Systems



Key features

- Signal conditioning optimized for maximum power and intelligibility for medium power speaker arrays
- Smart self-protection, self-monitoring and fault reporting
- Seamless, full-power UPS with self-contained back-up power system
- 1V or 25/70/100V input
- Volume control and test tone button
- Network Addressable Audio over IP (optional)

Overview

Engineered and designed with the latest amplifier technology for fire and life safety applications, the Encompass LT Amplifier Cabinet is optimized to produce clear and authoritative voice commands and alarms with up to 500 W of available power.

The system automatically switches between primary and backup power, performs self-diagnostics, and reports status to the outside world through industry-standard Form C relay fault reporting and a front-panel LED, indicating flash codes. Packaged in a low profile NEMA 1 enclosure with a locking door, the Encompass Amplifier Cabinet is perfect for indoor applications.

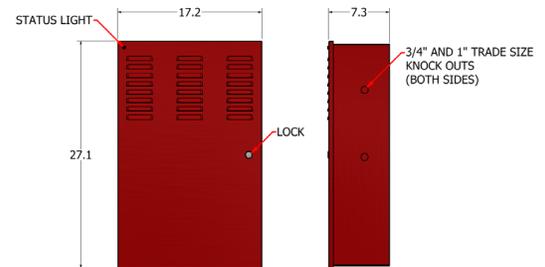
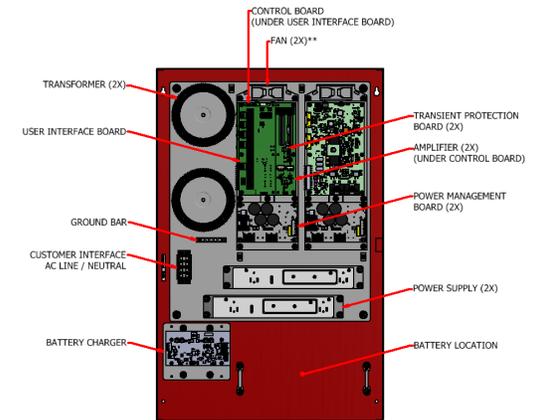
When making announcements, the HyperSpike® Encompass Amplifier Cabinet responds at a moments notice and will continue to broadcast as long as required. With best-in-class response time and continuous full-power output, the Encompass LT amplifier is always ready to help direct people to safety.

Certifications		
Certified to UL 864, UL 2572, ULC-S527, ULC-S576		
Cabinet Specifications		
Electronic Cabinet Dimensions	27.1" T x 17.2" W x 7.3" D	
Electronic Cabinet Weight	55 lbs max (not including batteries)	
Battery Weight	Various (based on model and standby power requirements)	
Cabinet Mounting	Wall Mount	
Electrical Interface		
Audio Activation Input	24 VDC nominal relay closure	
Audio Input	1 VRMS or 25/70/100 VRMS	
Trouble Outputs	Form C dry contact relay closure	
	AC Fault	
	Master Fault	
Output Channels	1 or 2	
Output Wiring	Min 18 AWG per channel (see manual)	
Power Interface – Designed with Intelligent Power Switching Technology		
Primary Input Voltage	100 to 240 VAC; 50 to 60 Hz Single-phase (Universal AC/Auto-switching)	
Output Power	250 W (avg), 500 W (peak)/channel	
Standby Time	>24 hrs (Based on battery size and use case)	
AC Current Rating	250 W Cabinet	5 Amps
	500 W Cabinet	10 Amps
Battery Charger (AC Powered)	2.2 A Smart Charger	
DC Back-up Voltage	24 V Nominal Battery (20.4-29.4 VDC)	
Batteries	Customer Supplied (Recommend AGM Batteries – see manual for details)	
Amplification		
Digital Signal Processing	Optimized Acoustic Performance (Filtering, EQ, Compression, Limiting, etc.)	
Frequency Response	400 Hz – 4 kHz (UL Certified Bandwidth) 100 Hz – 10 kHz (-3 dB)	
Amplification	Class D	
Efficiency	Greater than 78% at full load on AC Power Greater than 82% at full load on DC Power	
Short Circuit Protection	Yes	
Environment		
Operating Temperature	0° C to 49° C (32° F to 120° F)	
Electronic Cabinet Rating	NEMA 1 with Keyed Lock	
Transient Protection	Built-in Input and Output Transient Protection	
Part Numbers		
90318A-801	Encompass LT 250 W Cabinet (single channel)	
90318A-802	Encompass LT 2 x 250 W Cabinet (dual channel)	
90318A-803	Encompass LT 2 x 250 W Cabinet (dual zone)	

Architect and Engineer Specifications

The Electronics shall be: One (1) UL___ Certified wall mounted amplifier cabinet, with terminations and all components fully assembled and tested; Universal AC/Auto-switching (100 to 240 VAC; 50 to 60 Hz Single-phase) power supply. The electronic controls shall operate on 100-240 VAC primary power input as well as self-contained 24 VDC power backup. Audio output power shall be ___ channels and output ___W per channel, with a maximum AC current draw of ___ Amps.

The Amplifier Cabinet shall have a NEMA 1 rating and operate within a temperature range of 0°C to 49°C.





Health/Status	
Fault Indication	Form C Dry Contact Closure
	Dual Color Status LED
Fault Monitoring (indicated with flash code)	AC Power System (Independent Contact Closure)
	DC Power
	Amplifier and Audio Chain
	Speaker Wiring
	Communication
	Calibration
	Ground (Speaker Wiring)
	Battery Charging System
	Thermal
	Fan

IP Module Specification	
Ethernet Interface	RJ45 10/100 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 *
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