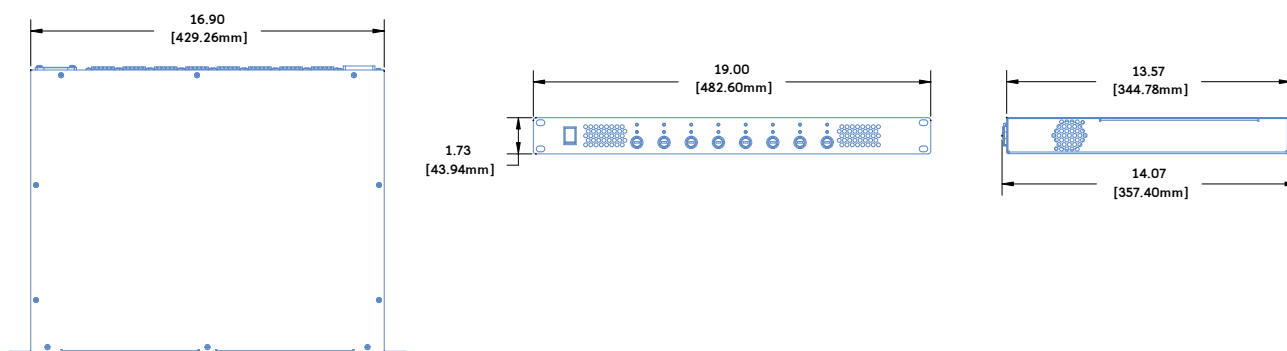


# Stella-188 : Power Supply



The Stella-188 external power supply is required when using Stella-4, Stella-4C, and Stella-8C installation loudspeakers. The self-powered Stella loudspeakers are designed primarily for use in Meyer Sound's Constellation® acoustic systems.

The Stella-188 can power up to 16 Stella-4 or Stella-4C loudspeakers, or up to eight Stella-8C loudspeakers. The single-space 19-inch rack power supply receives eight channels of balanced audio from its 25-pin D-sub connector and routes the audio, along with DC power, to its Phoenix™ 5-pin output connectors for greater wiring convenience. Each of the

eight channel outputs can deliver DC power to a single Stella-4 or Stella-4C loudspeaker at cable lengths of up to 300 feet with just 1 dB of loss in peak SPL, using 18 AWG wire, or to up to two Stella-4 or Stella-4C loudspeakers with limited cable runs of 150 feet. Cable runs to Stella-8C loudspeakers with lengths of up to 150 feet are possible (also with 18 AWG).

The Stella-188 front panel has two LEDs per output channel that provide useful feedback on the status of the system. The voltage LEDs indicate when voltage is present for each output channel. The load current LEDs indicate when a loudspeaker is connected to an output

channel with the LEDs glowing brighter as the signal level increases.

The use of composite multiconductor cables (such as Belden® 1502 or equivalent) allows a single cable to carry both balanced audio and DC power from the Stella-188 to the loudspeakers. Amplifier and signal processing circuits for Stella loudspeakers were designed to tolerate voltage drops of up to 30 percent, thereby accommodating light-gauge cables and long cable runs. Internal energy storage circuits for the loudspeakers minimize the system's peak-to-average current demands, ensuring efficient use of the Stella-188's DC output.

## FEATURES & BENEFITS

- Powers multiple Meyer Sound loudspeakers that require a DC external power supply
- Routes DC power and balanced audio to loudspeakers with single, composite cables
- Front panel LEDs provide system feedback on voltage and load current levels
- Patented Iso-Input™ transformer-isolated differential inputs yield high common mode signal rejection ratio (CMRR)

## APPLICATIONS

- Constellation acoustic systems
- High-quality distributed systems in clubs and restaurants for paging and music
- Sound installations for gallery exhibits and museum displays

STELLA-188 SPECIFICATIONS

FRONT PANEL		
	LEDs	Eight LEDs to indicate output voltage Eight LEDs to indicate load current
REAR PANEL	Audio Inputs Channel Outputs Output Wiring	8-channel 25-pin D-sub connector (Tascam Multitrack format) Eight Phoenix 5-pin male connectors Two pins for DC power, three pins for balanced audio Pin 1: 18 V DC – Pin 2: 18 V DC + Pin 3: Chassis/earth through 220 k $\Omega$ , 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies Pin 4: Signal – Pin 5: Signal +
	Output Voltage <sup>1</sup>	18 V DC per channel output (4.0 A, fuse protected)
AC POWER	Ac Connector Safety Agency Rated Operating Range	Detachable IEC 320 (line, neutral/line, earth) 100–240 V AC; 50/60 Hz; 920 W maximum
CURRENT DRAW <sup>2, 3</sup>		
	(Eight Stella-4/4C Loudspeakers)	
	Idle Current	0.583 A rms (115 V AC); 0.550 A rms (230 V AC); 0.659 A rms (100 V AC)
	Max. Long-Term Continuous Current (>10 sec)	2.20 A rms (115 V AC); 1.20 A rms (230 V AC); 2.50 A rms (100 V AC)
	Burst Current (<1 sec)	2.40 A rms (115 V AC); 1.40 A rms (230 V AC); 2.80 A rms (100 V AC)
	Ultimate Short-Term Peak Current Draw	6.80 A peak (115 V AC); 3.50 A peak (230 V AC); 7.60 A peak (100 V AC)
	Inrush Current	17.2 A peak (115 V AC); 17.0 A peak (230 V AC); 18.4 A peak (100 V AC)
	(16 Stella-4/4C Loudspeakers)	
	Idle Current	0.943 A rms (115 V AC); 0.751 A rms (230 V AC); 1.078 A rms (100 V AC)
	Max. Long-Term Continuous Current (>10 sec)	4.50 A rms (115 V AC); 2.15 A rms (230 V AC); 5.50 A rms (100 V AC)
	Burst Current (<1 sec)	5.20 A rms (115 V AC); 3.00 A rms (230 V AC); 6.70 A rms (100 V AC)
	Ultimate Short-Term Peak Current Draw	13.0 A peak (115 V AC); 9.0 A peak (230 V AC); 15.0 A peak (100 V AC)
	Inrush Current	17.2 A peak (115 V AC); 17.0 A peak (230 V AC); 18.4 A peak (100 V AC)
	(Eight Stella-8C Loudspeakers)	
	Idle Current	0.943 A rms (115 V AC); 0.751 A rms (230 V AC); 1.078 A rms (100 V AC)
	Max. Long-Term Continuous Current (>10 sec)	4.50 A rms (115 V AC); 2.15 A rms (230 V AC); 5.50 A rms (100 V AC)
	Burst Current (<1 sec)	5.20 A rms (115 V AC); 3.00 A rms (230 V AC); 6.70 A rms (100 V AC)
	Ultimate Short-Term Peak Current Draw	13.0 A peak (115 V AC); 9.0 A peak (230 V AC); 15.0 A peak (100 V AC)
	Inrush Current	17.2 A peak (115 V AC); 17.0 A peak (230 V AC); 18.4 A peak (100 V AC)
PHYSICAL		
	Dimensions	1RU high 19.00" w x 1.73" h x 13.57" d (482.60 mm x 43.94 mm x 344.78 mm)
	Weight	13.0 lbs (5.9 kg)

NOTES:

1. Supports NEC Class 2 wiring.  
2. Current draw measured at 18 V DC.  
3. Current draw ratings for eight connected loudspeakers.



NRTL LISTED for  
NEC ANSI/NFPA 70  
Class 2 Wiring on  
48 V DC Output

Stella-188 — 04.167.004.03 B

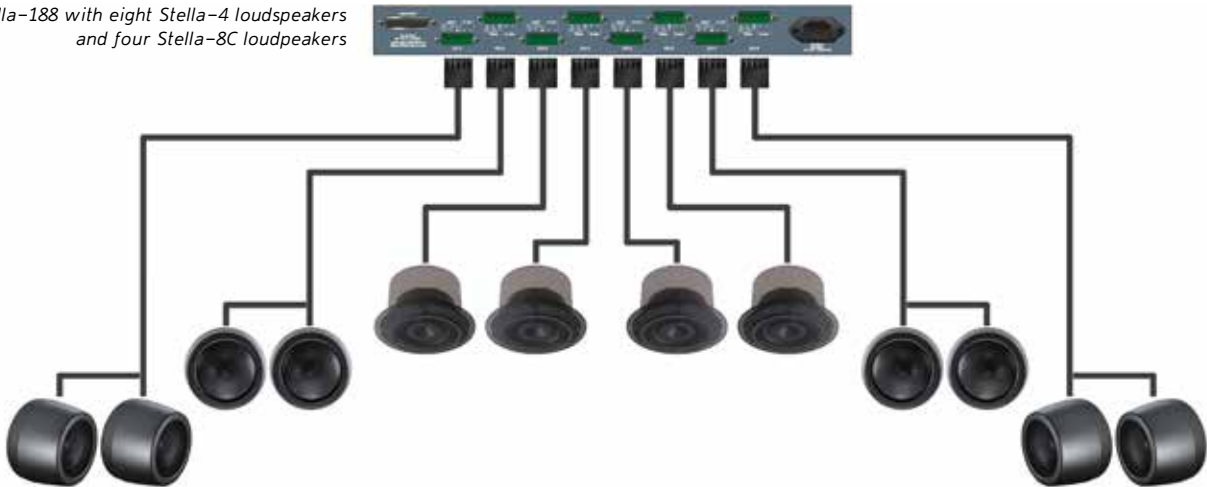
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Stella-188 with eight Stella-4 loudspeakers  
and four Stella-8C loudspeakers



ARCHITECT SPECIFICATIONS

The 18 V DC external power supply shall include eight discreet loudspeaker channels and power a maximum of 16 4-inch loudspeakers (two per channel) or eight 8-inch loudspeakers. The switched mode, regulated power supply shall also route up to eight channels of balanced audio to the loudspeaker channels. Balanced audio shall be received from the power supply's 25-pin D-sub connector. Channel outputs shall be Phoenix 5-pin male connectors

and deliver both DC power and balanced audio to each loudspeaker on a single composite cable.

Front panel LEDs shall provide feedback for output voltage and load current for each loudspeaker channel. Each loudspeaker channel shall be protected by its own 4-amp, 250-volt slow blow fuse.

The unit shall be housed in a one-space, standard 19-inch rack mount cabinet, measuring 13.57 inches (344.78 mm) in depth, and weighing just 13.0 lbs (5.9 kg). Its AC inlet shall be an IEC 320 (line, neutral/line, earth) connector.

The external power supply shall be the Meyer Sound Stella-188.