

TECHNICAL DATA SHEET

The ESP-15S is a compact, versatile self-powered subwoofer, designed to complement the ESP-8 and ESP-12 self-powered loudspeakers for applications ranging from live music to corporate and audio-visual. The onboard amplification and DSP package make the ESP-15S completely self-contained.

FEATURES AND BENEFITS

- High output to size ratio
- Extends ESP systems LF response to 45Hz
- Compact, lightweight enclosure
- On-board 1200 watt Class D amplifier
- 15" LF drive unit
- Various presets for different applications
- Integral handles, pole mount, and castors
- Universal mains voltage operation

APPLICATIONS

- Theatre
- Houses of worship
- Conference, corporate and audio-visual
- Theme parks



The ESP-15S is a compact reflex-loaded powered subwoofer using a single 4" (101.6mm) voice coil 15" (381mm) low frequency transducer, and is designed to complement and provide extended low frequency response for the ESP-8 and ESP-12 compact coaxial powered loudspeakers.

The ESP-15S utilises the latest in Class D amplifier technology, with a compact and lightweight module delivering a total power of 1200W RMS to the single drive unit. The amplifier power supply is a universal voltage design, meaning the ESP-15S will operate happily across the globe. The amplifier is primarily passively cooled via the substantial heatsink on the rear of the enclosure, however for high temperature scenarios a fan is present within the loudspeaker itself to cool critical components in the high-demand scenarios. Four presets are available in the ESP-15S – each one with a different low pass filter frequency to enable the user to tailor the characteristics of the subwoofer to their personal taste.

The ESP-15S has a combination XLR/1/4" jack input, and a male XLR

link output. LED indicators for power, status and preset are provided on the rear panel, along with preset selection controls and a level control, and mains supply is handled by Neutrik® PowerCON True1 inlet and link output connectors. The ESP-15S also comes supplied with a 3m True1 power cable, as well as the loose link output connector for assembling link mains cables.

The drive unit is housed within a compact, vented enclosure, constructed from premium 15mm (5/8") multi-laminate Birch plywood and heavily braced to minimise panel resonance. As standard the ESP-15S is fitted with rubber feet underneath and matching recesses on top to allow stable stacking of multiple enclosures, and two flush handles are provided on the sides for easy lifting of the 40.3kg (88.9lbs) loudspeaker. An M20 threaded polemount adapter is provided on the top for stand mounting ESP series loudspeakers. Lastly, a tough hex-punched steel grille backed with acoustically transparent fabric protects the drive unit from damage – this grille can quickly and easily be removed for service purposes.

TECHNICAL SPECIFICATIONS

ACOUSTICAL & MECHANICAL

ENCLOSURE TYPE:	Single driver, reflex loaded, self-powered
DIMENSIONS (HxWxD)	453 (17.8) x 550 (21.6) x 610 (24) mm/(ins)
NET/SHIPPING WEIGHT:	40.3/44.1kg (88.9/97lbs)
FREQUENCY RESPONSE ¹	45Hz – 120Hz ±3dB
DRIVE UNITS	15" (381mm) LF
MAXIMUM SPL ²	125dB continuous, 131dB peak
CROSSOVER	Onboard DSP-based active
CONNECTORS	Neutrik combi XLR/Jack input, male XLR output PowerCON True1 inlet/link output
ENCLOSURE:	15mm (5/8") multi-laminate Birch plywood – rebated, screwed and glued Finished in semi-matt textured paint
RIGGING & HARDWARE	M20 threaded top plate 2 x flush handle 4 x heavy duty castors
GRILLE	Mesh-backed perforated steel
OPTIONS:	Colours
ACCESSORIES	TC-15S padded transit cover
SPARE PARTS:	DU-1506 15" LF drive unit RFG-ESP-15S replacement grille

AMPLIFIER PACKAGE

AMPLIFIER TYPE:	Class D
AMPLIFIER POWER:	1200W
DSP SYSTEM	24 bit 48kHz Analog Devices SigmaDSP
COOLING	Passive heatsink, reserve internal fan
OPERATING VOLTAGE	100-240V, 50-60Hz AC with PFC

NOTES ON MEASUREMENT CONDITIONS:

¹Measured on-axis at 2m in an anechoic environment and referenced to 1m. ²Calculated and verified by subjective listening test of familiar program material.

ENCLOSURE OPTIONS

ESP Series loudspeakers are available as standard in black or white finish. Custom RAL colours can be supplied on request; extended lead times and set up costs apply. Please contact your EM Acoustics representative for details.

ENGINEERING DRAWING

