

Subwoofer Autoamplificado / 15 in / Clase-D 1250 W RMS / DSP 96 kHz / D-XSUB / Modo Cardioide / Bluetooth 5.0 / 133 dB SPL

SKU: DXS15MK3 Marca: YAMAHA Categoría: Bocinas Activas

Garantía: 3 años

$40,217.11

Precios con IVA incluido

DESCRIPCIÓN

Este subwoofer autoamplificado de tipo band-pass incorpora un transductor de 15 pulgadas con bobina móvil de 3 pulgadas de alta durabilidad, diseñado para aplicaciones de refuerzo sonoro profesional. El amplificador clase-D entrega 2500 W de potencia pico y 1250 W RMS, logrando un nivel máximo de salida de 133 dB SPL con una respuesta en frecuencia de 35 Hz a 140 Hz a -10 dB. Su estructura band-pass optimizada elimina el ruido indeseado del gabinete y maximiza la respuesta de graves, mientras que el procesamiento digital de 32 bit/96 kHz gestiona la conversión A/D D/A y el DSP avanzado. El modo cardioide permite controlar la dispersión directiva de frecuencias bajas en escenarios, reduciendo la energía hacia zonas no deseadas. El gabinete construido en madera contrachapada con acabado poliurea asegura durabilidad para condiciones de transporte e instalación exigentes.

Características Generales
Subwoofer autoamplificado de configuración band-pass
Transductor de 15 in con bobina móvil de 3 in de alta durabilidad
Amplificador Clase-D: 2500 W pico / 1250 W RMS
Nivel máximo de salida: 133 dB SPL
Respuesta de frecuencia: 35 Hz a 140 Hz (-10 dB)
Procesamiento D-XSUB para extensión de graves hasta 35 Hz
Conversores A/D D/A de 32 bit/96 kHz con DSP avanzado
Modo cardioide para control directivo de bajos en escenario
Gabinete de madera contrachapada con acabado poliurea duradero
Bluetooth 5.0 para configuración inalámbrica

Desempeño
Transductor: 15 in, bobina móvil de 3 in
Respuesta de frecuencia: 35 Hz a 140 Hz (-10 dB)
Nivel máximo SPL: 133 dB
Amplificador: Clase-D, 2500 W pico / 1250 W RMS
Extensión graves: D-XSUB hasta 35 Hz

Diseño y Durabilidad
Configuración acústica: Band-pass optimizada
Material del gabinete: Madera contrachapada
Acabado: Poliurea duradero
Aplicación: Refuerzo sonoro profesional e instalación

Procesamiento y Control
Conversión A/D D/A: 32 bit / 96 kHz
DSP: Procesamiento avanzado integrado
Modo de operación: Cardioide para control directivo
Conectividad: Bluetooth 5.0 para configuración

ESPECIFICACIONES

Característica 1	**Amplificación de 2500 W pico para alto impacto sonoro**
Característica 2	**Presión sonora máxima de 133 dB SPL en operación continua**
Característica 3	**Respuesta de graves de 35 Hz a 140 Hz lineal**
Característica 4	**Extensión activa de graves hasta 35 Hz sin equipos adicionales**
Característica 5	**Control direccional de bajos para reducir resonancias en escenario**
Característica 6	**Conversión A/D D/A de 32 bit/96 kHz para alta fidelidad**

MEMORIA TÉCNICA · DXS15MK3

Número de parte de esta ficha: DXS15MK3. La información corresponde a esta variante.

Technical Data Sheet 1/6Powered Subwoofer DXS15 mk3
Overview
The DXS15 mk3 is the mid-size version of Yamaha’s latest generation of DXS series powered subwoofers. The new model delivers deep, clear, and remarkably powerful, ultra-low bass thanks to our proprietary high-durability transducers, redesigned high-efficiency power amplifiers, and an ideal bandpass structure that eliminates unwanted cabinet noise. When paired with our perfectly matched DXR mk3 series loudspeakers in particular, the DXS15 mk3 enables users to build a seamlessly integrated sound system with unparalleled impact.
Features
- 15" Cone, 3" Voice coil proprietary high-durability speaker unit
- Newly developed 2,500 W Class-D amplifier
- High-output woofer with an ideal bandpass cabinet design for superior bass response, delivering a maximum 133 dB SPL
- Built-in D-XSUB processing allows you to extend the frequency response even lower, up to 35 Hz
- Extremely flexible X-OVER settings with DSP
- Cardioid mode for bass management onstage
- Plywood cabinet is durable and acoustically optimized for maximum sound quality
- M20 and Ø35 mm dual pole sockets
- Optional Speaker Wheels (SPW-1) and Speaker Cover (SPCVR-DXS153)
- Technical Data Sheet 2/6Powered Subwoofer DXS15 mk3
Specifications
General Specifications
Speaker type Powered Subwoofer, Band-pass
Frequency range (-10 dB) 35 Hz - 140 Hz

Maximum Output Level (Measured peak, IEC noise@ 1 m)133 dB SPL
Components LF Diameter: 15" cone, Voice Coil: 3"
Amplifier class Class-D
Power rating PEAK 2500 W
*1
RMS 1250 W
*2
Cooling Fan Cooling, 5 Speeds
Power consumption 130 W (1/8power), 40 W (Idle)
Power requirements 100 V - 240 V 50/60 Hz
A/D D/A Converters 32 bit/96 kHz Sampling
Processors HPF: OFF, 50 Hz - 118 Hz, 12 dB - 48 dB/Oct.; D-XSUB: NORMAL, XTENDED LF
I/O Inputs INPUT1 & 2: Combo x 1, Impedance 20 kΩ (balance) 10 kΩ (unbalance), Maximum Input Level +24 dBu
Outputs OUTPUT1 & 2: XLR3-32 THRU or DSP OUT
Bluetooth
® Ver. 5.0, A2DP (SBC, AAC), Class 1
Control and othersD-Remote (iOS/Android app)
Cabinet material Plywood
Finish Durable Polyurea Painting, Black
Handle Side x 2
Pole socket Φ35 mm (Depth 80 mm), M20 (Threaded depth 25 mm)
Dimensions W 480 mm (18.9")
H 611 mm (24.1")
D 614 mm (24.2")
Net weight 37.0 kg (81.6 lbs)
Options Cover: SPCVR-DXS153, Caster: SPW-1
*1: Total peak power of individual outputs. Measured by recording the highest peak-to-center voltage produced at minimum load impedance, with protection released.
*2: Measured by recording the highest RMS voltage produced at minimum load impedance, with protection released.
- Technical Data Sheet 3/6Powered Subwoofer DXS15 mk3
Dimensions
Unit: mm (inch)
82 (3.3)
40 (1.6)
16xM6
480 (18.9) 614 (24.2)
611 (24.1)236 (9.3)
279 (11.0)
M20
(DEPTH 25 (1.0))
φ35 (1.4)
(DEPTH 80 (3.2))
Options
- Cover SPCVR-DXS153
- Caster SPW-1
- Technical Data Sheet 4/6Powered Subwoofer DXS15 mk3
Architectural and Engineering Specifications
The Yamaha DXS15 mk3 shall be a powered bandpass subwoofer for sound reinforcement applications. The subwoofer shall have one 15" cone low-frequency transducer with a 3" voice coil and include configurable built-in digital signal processing. The peak power rating shall be 2500 watts, with a RMS power rating of 1250 watts. The subwoofer's amplifier shall be an efficient class-D type, with idle power consumption of 40 watts. The subwoofer shall be capable of meeting the following performance criteria: reproduction frequency range shall be 35 Hz to 140 Hz (-10 dB), and maximum output SPL shall be 133 dB (peak, pink noise @ 1m).
Two XLR/TRS combo connectors shall be provided for line-level analog audio input. Two XLR connectors shall be provided for analog audio THRU output, switchable to DSP output. Bluetooth
® connectivity shall be provided for stereo audio input from mobile smart devices.
The subwoofer shall provide digital signal processing at a sample rate of 96 kHz, using 96 kHz analog-to-digital and digital-to-analog converters. Digital signal processing functions shall be accessible via an LCD display panel and include delay, input and output level adjustment, mute, LPF, 6-band output EQ, ducker, and link mode. D-Xsub LF processing shall also be provided for low-frequency management, and a switchable Cardioid mode shall be provided for improved low-frequency directivity when multiple subwoofers are stacked. Panel lock, panel setup and password protection features shall also be provided. Digital signal processing shall further be used to provide system-wide protection. Preset setups shall be provided, with on-board memory for internal user setting storage. A smart device app called D-Remote shall be available to control the loudspeaker's DSP functions and manage preset memories via Bluetooth
® control.
The subwoofer enclosure shall be constructed of high-performance plywood and finished with a durable polyurea coating. The front panel shall not include any visible mounting screws. The subwoofer cabinet shall include one 35 mm pole socket and one M20 threaded mounting socket on its top panel. The rear panel shall include attachment points for castor wheels, and the side panels shall include handles for convenient horizontal and vertical lifting. The dimensions of the subwoofer shall be 480 x 611 x 614 mm (W x H x D). The weight shall be 37 kg.
- Technical Data Sheet 5/6Powered Subwoofer DXS15 mk3
Block Diagrams
16
- DXSmk3
1 (LINE)
2 (LINE)
METER
DSP section
COMBO
(Balance)
AMP
SW
DA
INPUT
HA
HA
PEAK
DA
LIMIT
MAIN
DELAY
MAIN
EQ
6Band
COMBO
(Balance)
DELAY
EQ
GAIN
HPF
LINK
MODE
POST EQ
HPF ON
THRU
/DSP OUT
LEVEL
LEVEL METER
PEAK
METER
PEAK

METER
PEAK
METER
PEAK
METER
Factory Fixed
OSCILLATOR
for
Maintenance
X-OVER
LEVEL
MAIN
DSP OUT1
DSP OUT2
LEVEL
LEVEL
1
2
OUTPUT
XLR(Balance)
MUTE
MAIN
LEVEL
LEVEL
SP
PROTE
CTION
AMP
PROTE
CTION
BA
AD
AD
OUT
DELAY
Bluetooth
AUDIO
(STEREO)
Φ
HPF+LPF
D-XSUB CARDIOID
DAHPF
POST EQ
HPF ON
METER
PEAK
XLR(Balance)
LEVEL
BA
OUT
DELAY
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Frequency Response
(LPF: 118Hz)
D-XSUB XTD LF
D-XSUB NORMAL
RESPONSE (dB)
20
10
0
-10
-20
-30
20 50 100 300
FREQUENCY (Hz)

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