

TB



Specs Sheet

DJ18S | 18" Powered
Subwoofer

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Frequency Response Down to 27 Hz ○

Compact Size, Light Weight, Easy To Transport ○

Excellent Output-To-Size Ratio ○

2400W RMS Class D Amp ○

Description:

For DJs and venues seeking extremely deep bass at moderately high levels, the DJ18S is a small, light and very cost-effective solution. Suitable for the truly bass-insatiable, whose focus is on modern music that features frequencies well below the usual 40-50Hz range, this extremely compact sub weighs only 110 lbs and delivers output down to 27Hz (-3dB). By comparison, most similarly sized subs are going to be -10dB at 30 Hz. That's an equivalent output ratio of 2:1 at the lowest notes. That means it would take 2 boxes with output that's -10 at 30Hz to produce the same output as one DJ18S.

The DJ18 is a single 18-inch direct-radiating subwoofer. Featuring a long excursion, 18-inch woofer loaded into a vented enclosure that is tuned to optimize extremely low frequency output using a very large port. The amplifier is loaded at the interior port end to utilize the air flow at high output for additional cooling. The cabinet was designed to minimize materials, cost and weight and maximize efficiency.

It includes a 2400W RMS amplifier, rated for RMS output using continuous sine wave signal. This is not a peak or burst power rating. The amplifier is capable of delivering 2400W of continuous output, ensuring that the amp isn't the limiting factor in the output of low frequencies. Providing abundant power also virtually eliminates the possibility of overheating and damage to the woofers caused by clipping.

All that electrical power is converted into acoustical power by a 18 inch neodymium motor woofer. This premium-quality driver features a copper-winding voice coil. High-intensity Neodymium magnets are lighter and provide higher efficiency so the result is a lighter and louder cabinet.

Integrated, comprehensive DSP is included. Processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to control all manners of driver overload, including thermal, excursion and clipping. The protection systems effectively prevent overheating of the voice coils and minimize long-term thermal compression while having virtually no effect on the transient response and peak output of the loudspeaker.

The cabinets are constructed from 18mm Baltic Birch plywood, assembled using dado joints, screws and advanced composite adhesives. Stainless steel bolts are used to secure the drivers, amplifier and pole sockets. The cabinet is finished in an extremely rugged, black polyurethane coating.

The driver is protected by a black powder-coated, perforated steel grill. The woofer cones are waterproofed so the cabinets are safe to use outdoors where they may encounter rain, in nightclubs where drinks may be spilled on them, or in dusty environments that may leave the drivers needing a thorough deep cleaning.

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SPECIFICATIONS

Acoustical

Loudspeaker Description	Subwoofer, single 18" powered and processed
Frequency Response (± 3 dB):	27 - 100 Hz
Maximum Sustained Output:	127 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*	136 dB
Nominal Dispersion ($H^\circ \times V^\circ$):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	2400 Watt Continuous RMS Class D Amplifier
Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connectors, Amp:	Neutrik Powercon input (Blue) NAC3FCA
Electrical Connector, Mains:	Standard US 3-pin 120V electrical plug: NEMA 5-15, (Edison)
Voltage Operating Range:	90-130V
Current Draw, Nominal:	3A @ 120 volts (typical, 1/8 max power)
Current Draw, Peak:	20A
Current Draw, Continuous:	Limited to 16.5A after 1 second
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M pass-through only

Physical

Enclosure Type:	Direct radiating, vented enclosure, optimally tuned for high sensitivity at extremely low frequencies
Transducer:	1 x 18" diameter (457 mm) neodymium motor woofer with 4" (100 mm) split winding copper voice coil with waterproof fiber composite cone
Cabinet Construction:	18 mm Baltic Birch plywood. Equipped with 2 handles, 1 pole socket and rubber feet
Dimensions (HxWxD):	27.5" x 20.5" x 29.5" (69.85 cm x 52.07 cm x 74.93 cm)
Net Weight:	110 lbs. (50 kg)
Shipping Weight:	125 lbs. (57 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
Grill:	Perforated, powder-coated steel
Pole Sockets:	1 (35 mm)
Handles:	2 Integrated Handles

Optional

Cover:	Heavy-duty padded nylon transport covers for 1 cabinet
Transport Dollies:	Dolly cart with 4 locking casters, recesses into back of cabinet for secure transport
Online Information:	bassboss.com/dj18s

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum Sustained Output" ratings, which reflect actual measured, continuous output levels.

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