

18 PT1200 SUB

SWETON®



18 PT 1200 SUB is a powerful 18-inch mid-bass transducer engineered for deep, punchy, and distortion-free bass reproduction in demanding professional sound reinforcement systems. Designed with a robust 4-inch voice coil and an optimized motor system delivering a high BL factor of 26.28 N/A, this driver ensures excellent control over cone movement, resulting in tight, impactful bass. With a sensitivity of 94 dB and an AES power handling of 1200 watts, it delivers impressive sound pressure levels even in open environments. Verified with the Klippel Analyzer System, the 18PT1200 SUB guarantees reliable performance, low distortion, and high excursion capacity—making it the perfect choice for DJs, rental systems, and high-performance audio installations.

Recommended Enclosure:

Type	Volume	Port Details
Vented	150 – 180 L	Dual ports Ø100 mm, length 180 mm (tuned ~40 Hz)
Sealed	110 – 130 L	For tighter low-end, compact setups

Recommended Crossover Settings:

Filter	Frequencyz	Slope
LPF	2.2 – 2.5 kHz	18–24 dB/oct
HPF	35 – 40 Hz	24 dB/oct (if vented)

Recommended HF Driver Pairing:

Parameter	Recommendation
Power Rating	100–150W AES
Sensitivity	108–112 dB SPL
Type	1.4" Titanium Compression Driver

Applications:

- Subwoofer for high-end DJ systems
- Mid-bass in 3-way active systems
- Line arrays for outdoor functions and festivals
- Large PA systems in auditoriums and processions

Why Choose 18PT1200 SUB?

- High BL (26.28 N/A) ensures strong motor control and tight bass.
- 94 dB sensitivity offers high output without high power consumption.
- Low Fs (41 Hz) delivers extended low-end for impactful sub bass.
- Built using Klippel-verified engineering for maximum linearity, low distortion, and thermal reliability.
- Ideal balance of depth, punch, and clarity.

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	465 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	1200 W
Program Power	2400 W
Sensitivity (1W/1m)	94 dB
Frequency Range	41-2000 Hz
Magnet Material	Ferrite
Voice Coil Diameter	99.3 mm (4 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	In/Out

Mounting Info

Overall Diameter	465 mm
Bolt Circle Diameter	448 mm
Baffle Cutout Diameter	426 mm
Depth	190 mm
Flange and Gasket Thickness	20 mm
Gross Weight	17 Kgs

Parameters

Resonant Frequency	Fs	41 Hz
DC Resistance	Re	6.4 Ω
Electrical Q	Qes	0.56
Mechanical Q	Qms	14.48
Total Q	Qts	0.54
Compliance Equivalent Volume	Vas	135.14 Ltrs
Peak Diaphragm Displacement Volume	Vd	1.55 Ltrs
Effective Surface Area of Cone	Sd	1225.42 cm ²
Reference Efficiency	η_0	1.66%
Moving Mass including air load	Mms	229.7 gms
Motor Strength	Bl	26.28 T-m
Voice Coil Inductance	Le	0.91 mH
Efficiency Bandwith Product	EBP	73 Hz
Voice Coil Overhang	Xmax	± 6.3 mm

Recone Kit

Recone Kit Number	REC18PT1200SUB
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Z(f,x=0) Impedance

