

18 PT 1500 SUB

SWETON®



18PT1500 SUB – Earth-Shaking Performance in Every Beat

The **SWETON 18 PT 1500 SUB** is a high-output 18-inch subwoofer engineered for professional-grade bass reinforcement. Designed with a massive 126 mm (5-inch) voice coil, this transducer can handle a brutal 1500 Watts AES power, ensuring exceptional low-frequency performance in large venues, outdoor events, and demanding touring rigs. With a frequency response ranging from 45 Hz to 2 kHz, and a sensitivity of 96 dB, this driver delivers solid, musical, and deep bass while maintaining clarity and punch.

Whether it's club-level bass or large-scale sound rentals, the 18PT1500 SUB stands out for its brute power, clean low-end reproduction, and rugged durability – making it an essential addition to any professional PA system.

Enclosure Recommendation:

Type	Volume	Tuning (Fb)	Port Details
Vented Box	160–180 L	38–40 Hz	Dual ports: 4" dia × 6.5" length

(You can also use a single 6" port for smoother airflow.)

Recommended HF Driver Pairing:

Parameter	Recommendation
Power Rating	100–150W AES
Sensitivity	105–110 dB SPL
Diaphragm Type	Titanium compression driver preferred
Exit Size	1.4" (preferred) or 1" depending on application
Use Case	For 3-way system pairing above 1.2 kHz

Crossover Points Recommendation:

Driver	Type	Frequency Range	Recommended Slope
18PT 1500 SUB	Low Pass (LPF)	80 Hz – 120 Hz	24 dB/oct (Linkwitz-Riley)
HF Driver	High Pass (HPF)	1.2 kHz – 1.5 kHz	24 dB/oct

Note: If used in a 2-way system with a mid-high, adjust crossover between 100–120 Hz LPF and HPF accordingly.

Applications:

- Large PA Systems
- Touring Subwoofer Arrays
- Sound Rental Systems for Open Grounds & Festivals
- DJ Setups with Extended Bass Requirements

Why Choose 18PT1500 SUB?

- **Extreme Power Handling:** With 1500W AES power and a massive voice coil, this sub can deliver sustained deep bass even under the harsh conditions.
- **Deep & Controlled Bass:** With a usable range starting as low as 45 Hz, it delivers subsonic punch with tight transient response.
- **Durability Assured:** Built with premium-grade materials, this sub withstands high temperatures, excursion stress, and thermal load with exceptional resilience.
- **Tested with Klippel R&D Tools:** Verified through Klippel Analyzer System for distortion, excursion, and thermal metrics – ensuring engineering precision.

SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	470 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	1500 W
Program Power	3000 W
Sensitivity (1W/1m)	96 dB
Frequency Range	45-2000 Hz
Magnet Material	Ferrite
Voice Coil Diameter	126 mm (5 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	In/Out

Mounting Info

Overall Diameter	470 mm
Bolt Circle Diameter	445 mm
Baffle Cutout Diameter	420 mm
Depth	211 mm
Flange and Gasket Thickness	22 mm
Gross Weight	25.30 Kgs

Parameters

Resonant Frequency	Fs	45 Hz
DC Resistance	Re	5.98 Ω
Electrical Q	Qes	0.4
Mechanical Q	Qms	13.87
Total Q	Qts	0.39
Compliance Equivalent Volume	Vas	109.65 Ltrs
Peak Diaphragm Displacement Volume	Vd	2.71 Ltrs
Effective Surface Area of Cone	Sd	1237.86 cm ²
Reference Efficiency	η_0	2.36%
Moving Mass including air load	Mms	248.80 gms
Motor Strength	Bl	32.39 T-m
Voice Coil Inductance	Le	1.91 mH
Efficiency Bandwidth Product	EBP	113 Hz
Voice Coil Overhang	Xmax	± 10.96 mm

Recone Kit

Recone Kit Number	REC18PT1500SUB
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Z(f,x=0) Impedance

