CELESTION

LF Loudspeakers **POWERPROX18**



Mounting Information

Overall diameter Overall depth Cut-out diameter Mounting hole dimensions Number of mounting holes Mounting hole PCD Flange & gasket thickness Unit weight

460mm / 18.1in 225mm / 8.9in 414mm / 16.29in 11x7mm / 0.43x0.28in 441-432mm / 17.36-17.31in 16.2mm / 0.64in 13.2kg / 29.1lb

18-inch, cast aluminium chassis, ferrite magnet LF loudspeaker

- PowerProX speakers are built for maximum performance and reliability throughout the lifespan of each speaker
- Dynamic airflow venting delivers class-leading heat management with an average 20C lower voice coil temperature
- Polysiloxane laminated dual suspension provides greater stability and improved cone displacement symmetry
- Aluminium demodulation ring reduces harmonic and intermodulation distortion caused by voice coil displacement
- Double-sided, weatherproof cone coating for moisture protection and enhanced durability

2400W

Continuous power rating 97dB sensitivity

4in

Round copper voice coil

General Specifications

Nominal Diameter 457mm / 18in Power Rating 1200W 2400W Continuous power rating Rated impedance 8 ohm Sensitivity 97dB Frequency range 35-1000Hz Chassis type Cast aluminium Magnet type Ferrite Magnet weight 3.5kg / 124oz Voice coil diameter 100mm / 4in Voice coil material Round copper Former material Glass fibre

Cone material Glass loaded cellulose, & water-resistant coating

front back

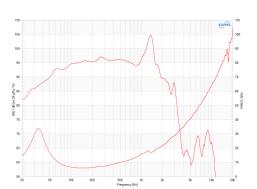
Surround material Cloth-sealed **Dual-laminated** Suspension Gap height (Hg) 11.75mm / 0.46in VC winding height (Hvc) 25mm / 0.98in

Parameters

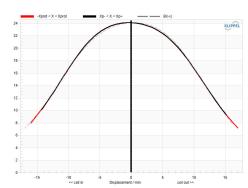
Efficiency

Sd 1210.0cm² / 187.6in² Fs 34.8Hz Mms 229.98g / 8.1oz Qms 3.147 0.431 Qes 0.379 Qts Re 5.1 ohm Vas 188.9I / 6.67ft³ 24.38Tm ВΙ 0.091mm/N Cms Rms 15.96kg/s Le (at 1kHz) 1.61mH 9.5mm / 0.37in **Xmax** 48mm / 1.9in **Xmech**

Frequency response and impedance

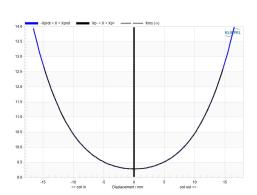


Force factor BI symmetry



Stiffness K symmetry

1.8%



Power rating: Tested for two hours using a continuous, band-limited pink noise signal as per AES standard. Power calculated on minimum impedance. Loudspeaker

Continuous power rating: Defined as 3dB greater than the AES rating. Sensitivity: Measured on axis at 1W, 1m in 2 pi anechoic environment. Parameters: Measured after unit subjected to pre-conditioning signal. Xmax: 0.5*(Hvc-Hg) + 0.25*Hg Xmech: Maximum peak-to-peak excursion before damage.

