PREMIUM GRADE MEDIUM THROW DEEP BASS SUBWOOFER OPTIMISED FOR SEALED OR PORTED ENCLOSURES

IndyS12/2

UPC:	685757152365
EAN:	0685757152365
Printed:	685757152365

DETAILED TECHNICAL DATA

Power Handling (Per Driver):	1300WRMS (@0%Thd)
Nominal Impedance:	2+2ohm
DC Impedance:	3.68ohm
Voice Coil Diameter:	76.5mm
Voice Coil Layers:	4
Magnet:	170mm x 50mm
Magnet Type:	Y30 Ferrite

BOX COMPATIBILITY

Recommended Box Type:	Sealed/Ported
Recommended Box Size:	50>75Litres
Optimal Frequency Response:	25>80Hz
Recommended Port Cross Sectional Area (CSA):	20"2>40"2
Recommended Tuning Frequency:	30>45Hz

INSTALLATION POINTS

Failure to observe any of these installation points will invalidate your warranty:

- Do not run this subwoofer infinite baffle.
- Ensure your enclosure is within the specification listed.
- Only use correctly rated non-combustible cables.

TEAM TIPS

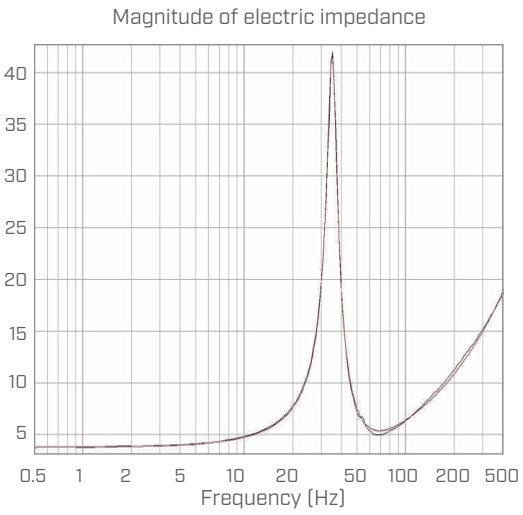
- We recommend to put all subwoofers in your system in a box with a shared air space.
- we do not recommend to run dual coil woofers from separate mono channels or amplifiers. This also applies (but less so) to single coil speakers in the same enclosure air space run from separate mono channels. We always recommend the use of a larger amplifier when possible in this case.
- For setting subwoofers it is possible to make a useful DIY clip detector. Wire an old tweeter and high voltage capacitor (we recommend a 250V 6.8uF) in line with the subwoofer. Next, play a 50Hz tone. Turn the gain up slowly until the tweeter makes a distinctive metallic rasp then back the gain off a small amount until the tweeter stops making the noise. Only use a tweeter you do not need as this can cause damage.

TS PARAMETERS

Name	Value	Unit	Note
RE	3.68	OHM	Electrical voice coil resistance at DC
KRM	0.0018	OHM	Wright inductance model
ERM	1.04		Wright inductance model
KXM	0.0266	OHM	Wright inductance model
EXM	0.8		Wright inductance model
CMES	807.78	UF	Electrical capacitance representing moving mass
LCES	32.37	MH	Electrical inductance representing driver compliance
RES	38.25	OHM	Resistance due to mechanical losses
FS	31	HZ	Driver resonance frequency
MMS	274.267	G	Mechanical mass of driver diaphragm assembly including air load and coil
MMD	260.443	G	Mechanical mass of voice coil and diaphragm without air load
RMS	8.877	KG/S	Mechanical resistance of total driver losses
CMS	0.095	MM/N	Mechanical compliance of driver suspension
KMS	10.49	N/MM	Mechanical stiffness of driver suspension

Name	Value	Unit	Note
BL	18.426	N/A	Force factor BL product
LAMBDA	-0.019		Suspension creep factor
QTP	0.588		Total Q factor considering all losses
QMS	6.042		Mechanical Q factor of driver in free air considering RMS only
QES	0.581		Electrical Q factor of driver in free air considering RE only
QTS	0.53		Total Q factor considering RE and RMS only
VAS	38.035	|	Equivalent air volume of suspension
MQ	0.19	%	Ref. efficiency (2 PI radiation using RE)
LM	84.98	DB	Sound pressure level (SPL at 1M for 1W @ RE)
LMOM	85.34	DB	Nom. sensitivity (SPL at 1M for 1W @ ZN)
RMSE Z	4.33	%	Root mean square fitting error of driver impedance Z(F)
RMSE HX	2.4	%	Root mean square fitting error of transfer function HX(F)
SD	530.93	CM2	Diaphragm area
XMAX	25	mm	Total linear movement

FREQUENCY VS IMPEDANCE



TECHNICAL DRAWING

Total Diameter:	316mm	Mounting Depth:	175mm
Weight Approx. (Per a Driver):	10Kg	Mounting Diameter:	280mm

