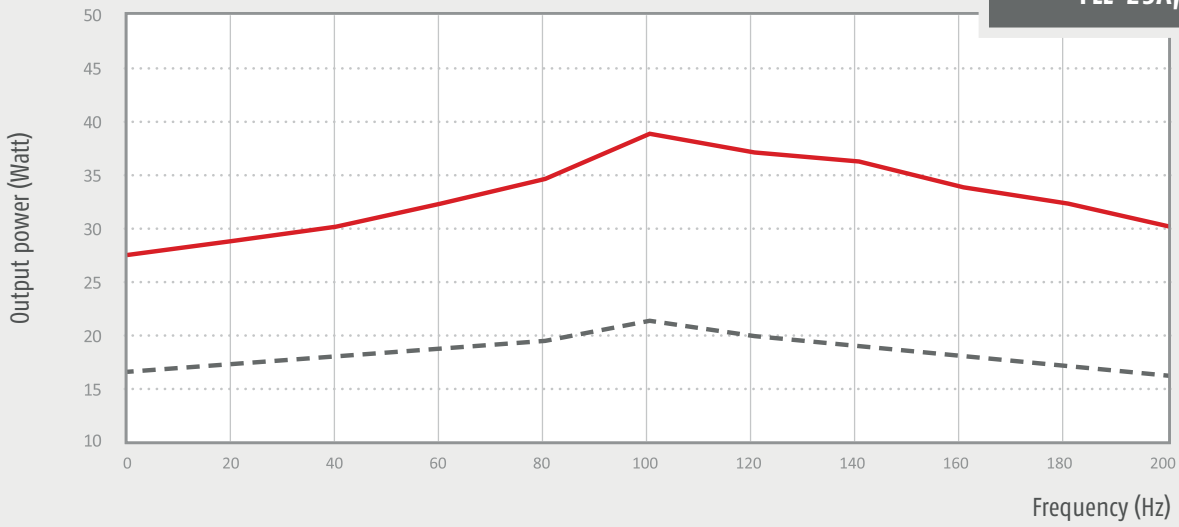


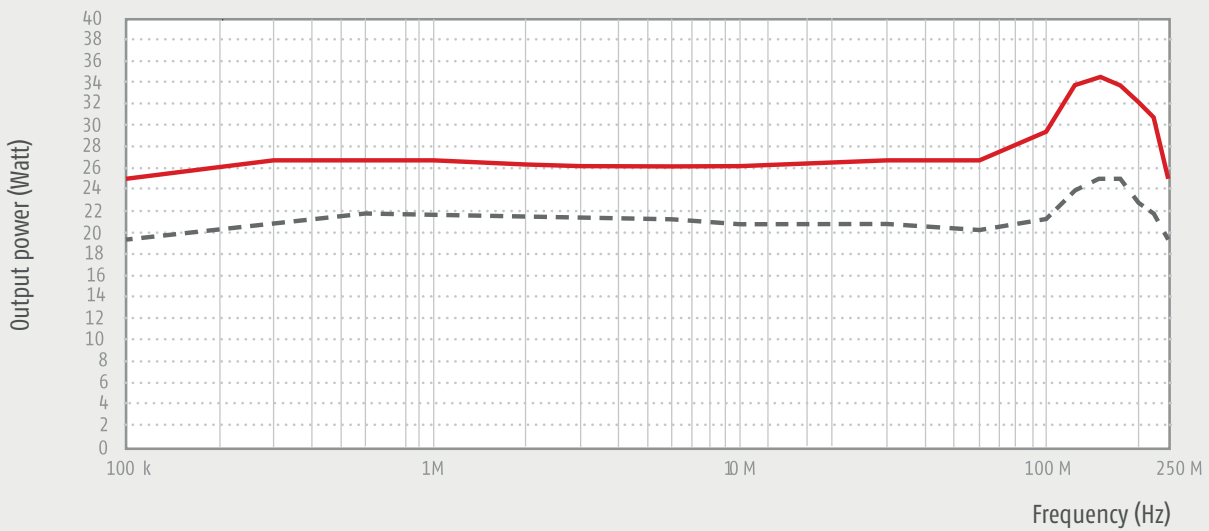
Part Number		FLL-25A	FLL-25	FLL-75
Frequency range		10kHz-230MHz	100kHz-250MHz	100kHz-300MHz
Output Power typ.		25 W	25 W	75 W
Output Power @ 1dB Compression, typ. min		see diagramm	see diagramm	see diagramm
RF Input, max.		+3 dBm	0 dBm	0 dBm
Gain, typ.		+43 dB	+46 dB	+51 dB
Flatness, typ.		±2 dB	±1.5 dB	±1.5 dB
IP3, typ.		+48 dBm	+48 dBm	+52 dBm
Input VSWR, max.		2:1	1.5:1	1.5:1
Harmonics @ 1 dB com., typ.		-15 dBc @ 15 W	-20 dBc @ 20 W	-20 dBc @ 20 W
Spurious Signals @ 1 dB comp., typ.		<-60 dBc @ 15 W	-75 dBc @ 20 W	-75 dBc @ 75 W
Input Output Impedance		50 Ω / 50 Ω	50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out		N(f)N(f)	N(f)N(f)	N(f)N(f)
Dimensions (mm)	W	483 (19")	483 (19")	483 (19")
	H	134 (3 HU)	134 (3 HU)	134 (3 HU)
	D	508	436	436
Weight		16 kg	8 kg	10 kg
AC Power Input (W)		300	150	400
Power Supply (VAC)		100-240	88-264	100-240
Phases		1	1	1
Operating Humidity Non-Condensing (%)		95	95	95
Cooling		Internal forced air	Internal forced air	Internal forced air
Circuit Protection		Thermal Overload Over Current Over Voltage	Thermal Overload Over Current	Thermal Overload Over Current Over Voltage
Following types available:		S, E	S	S

FLL-25A

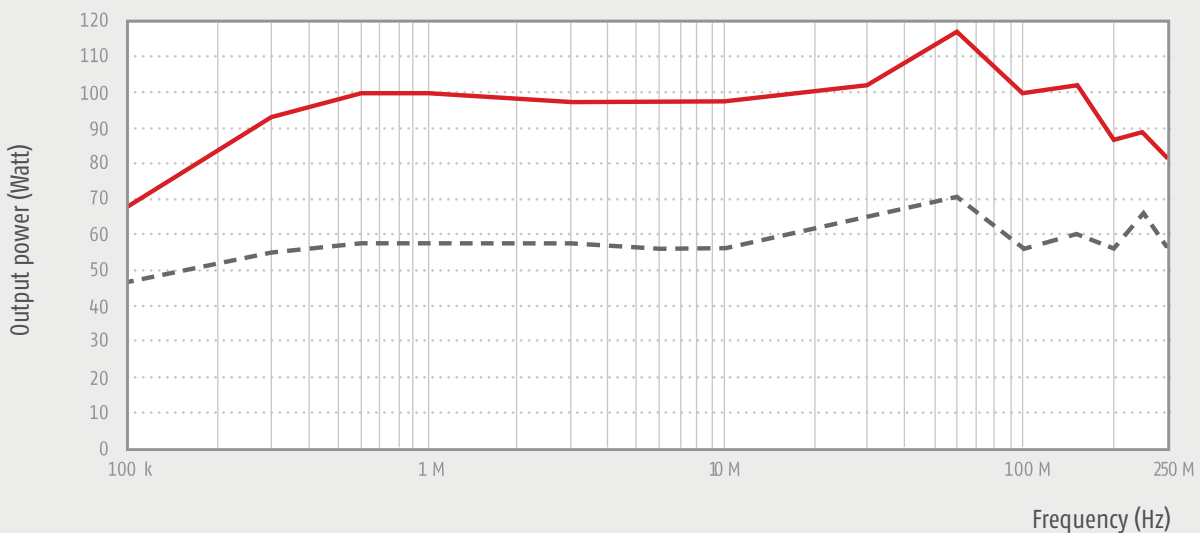
FLL-25A, FLL-25, FLL-75



FLL-25



FLL-75



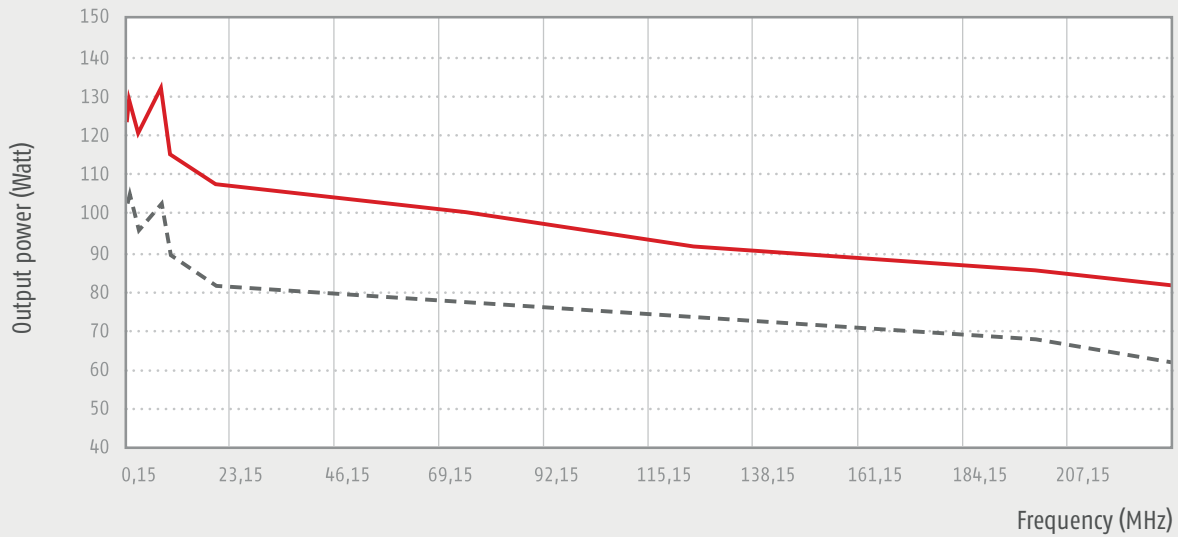
Output Power (Compression max. = 1dB)

Output Power (Compression max. = 3dB)

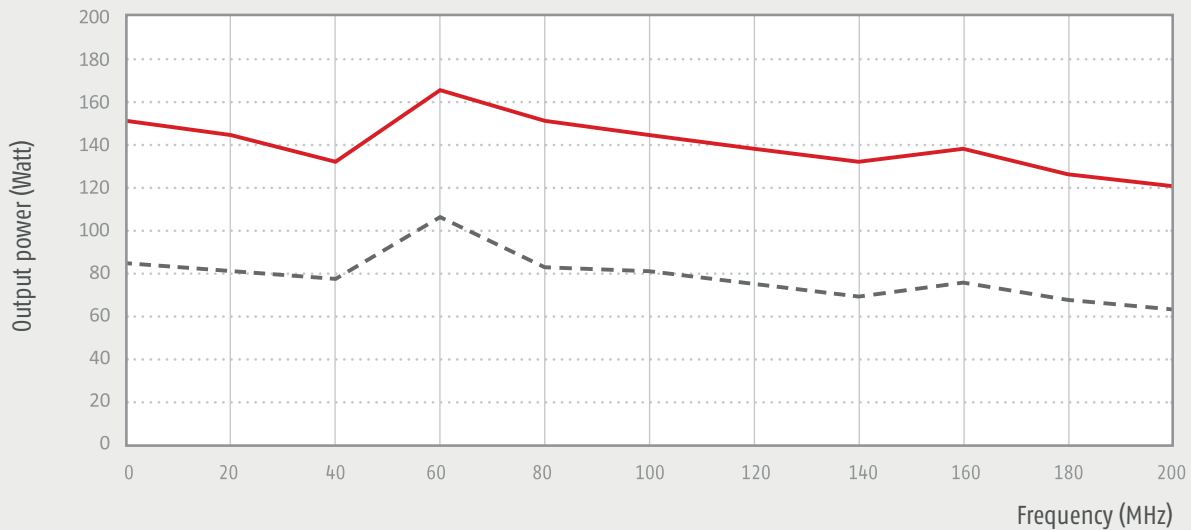
10 KHz – 300 MHz

Part Number		FLL-75A	FLL-100A
Frequency range		150kHz-230MHz	10kHz-250MHz
Output Power typ.		75	100
Output Power @ 1dB Compression, typ. min		see diagramm	see diagramm
RF Input, max.		0 dBm	0 dBm
Gain, typ.		+51 dB	+50 dB
Flatness, typ.		±1.5 dB	±2.5 dB
IP3, typ.		+54	+54
Input VSWR, max.		2:1	2:1
Harmonics @ 1 dB com., typ.		-20 dBc @ 45W	-20 dBc @ 60W
Spurious Signals @ 1 dB comp., typ.		<-60 dBc @ 45W	<-60 dBc @ 60W
Input Output Impedance		50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out		N(f)N(f)	N(f)N(f)
Dimensions (mm)	W	483 (19")	483 (19")
	H	134 (3 HU)	223 (5 HU)
	D	508	660
Weight		17,5 kg	26 kg
AC Power Input (W)		400	700
Power Supply (VAC)		100-240	100-240
Phases		1	1
Operating Humidity Non-Condensing (%)		95	95
Cooling		Internal forced air	Internal forced air
Circuit Protection		Thermal Overload Over Current Over Voltage	Thermal Overload Over Current Over Voltage
Following types available:		S, E	S, E

FLL-75A



FLL-100A

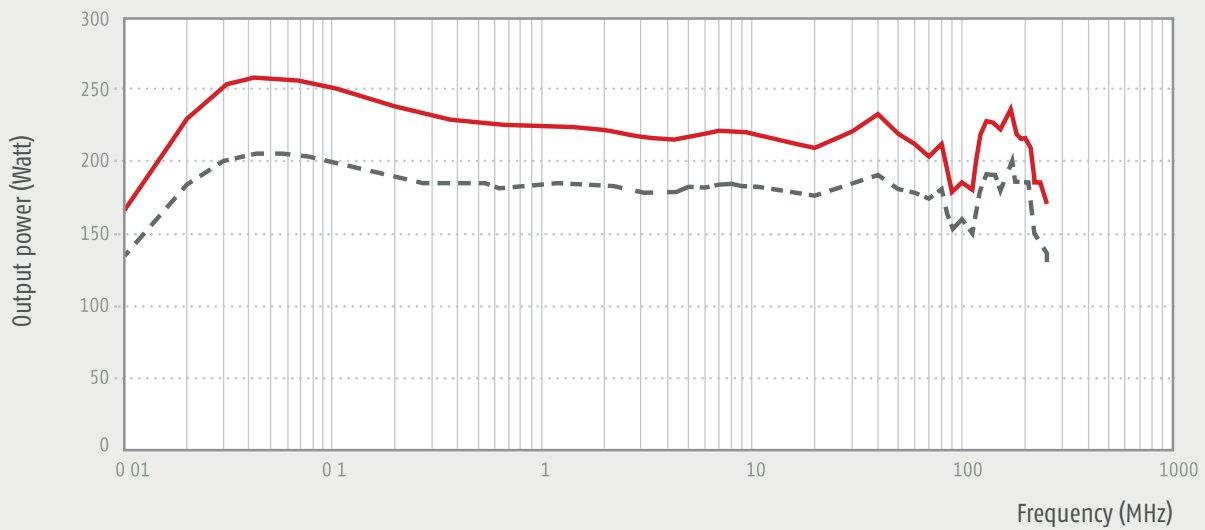


- Output Power (Compression max. = 3dB)
- Output Power (Compression max. = 1dB)

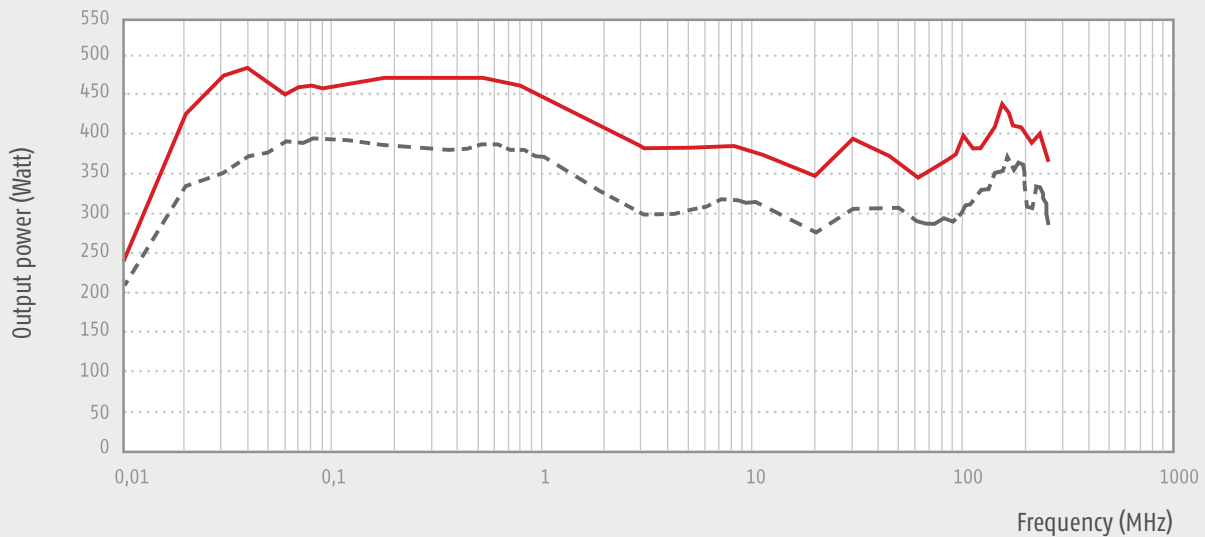
10 KHz – 300 MHz

Part Number	VLI-140	VLI-300
Frequency range	10kHz-250MHz	10kHz-250MHz
Output Power typ.	140 W	300 W
Output Power @ 1dB Compression, typ. min	see diagramm	see diagramm
RF Input, max.	+10 dBm	+10 dBm
Gain, typ.	+ 49 dB	+ 53 dB
Flatness, typ.	±3 dB	±2.5 dB
Input VSWR	2:1	2:1
Harmonics @ 1 dB comp.	H2, H3 <-20 dBc	H2, H3 <-20 dBc
Class type	A	A
Input / Output Impedance	50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out	N(f)N(f)	N(f)N(f)
Dimensions (mm)		
W	450	450
H	178 (4 HU)	178 (4 HU)
D	640	640
Weight	33 kg	35 kg
Rated current	7.5A @ 110VAC, 3.2A @ 230VAC	13.2A @ 110VAC, 6.3A @ 230VAC
Power Supply (VAC)	90-250, 47-63 Hz	90-250, 47-63 Hz
Phases	1	1
Operating Temperature (°C) 0/+50	0 / +35	0 / +35
Room temperature storage (°C)	-20 / +70	-20 / +70
Cooling / Forced air	Self contained fans 60l / sec. max.	Self contained fans 60l / sec. max.
Following types available:	S, SC, D, DC	S, SC, D, DC

VLL-140



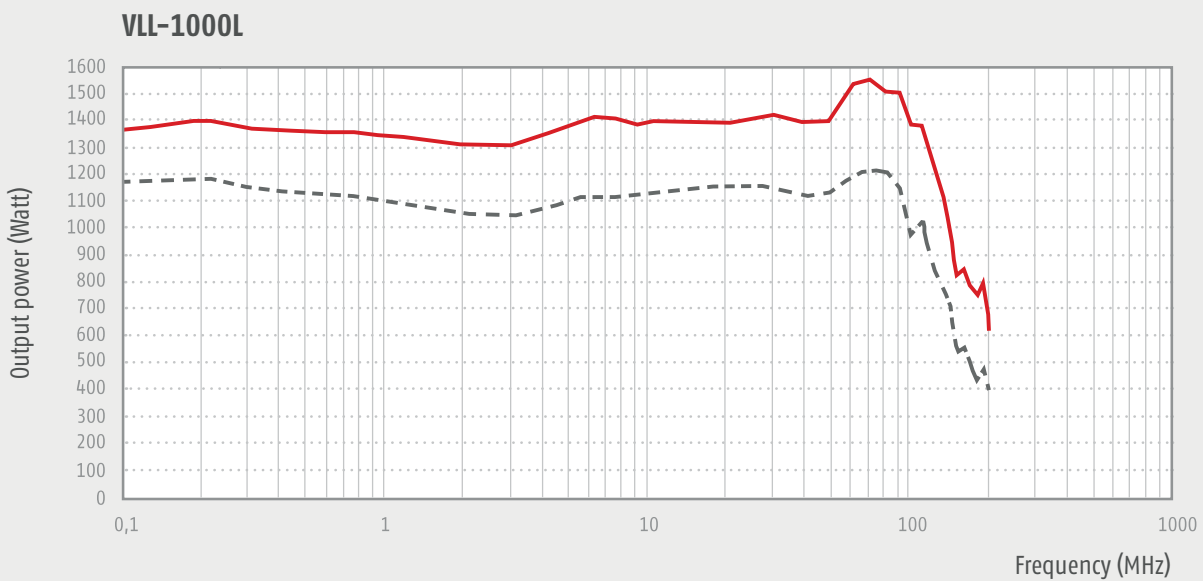
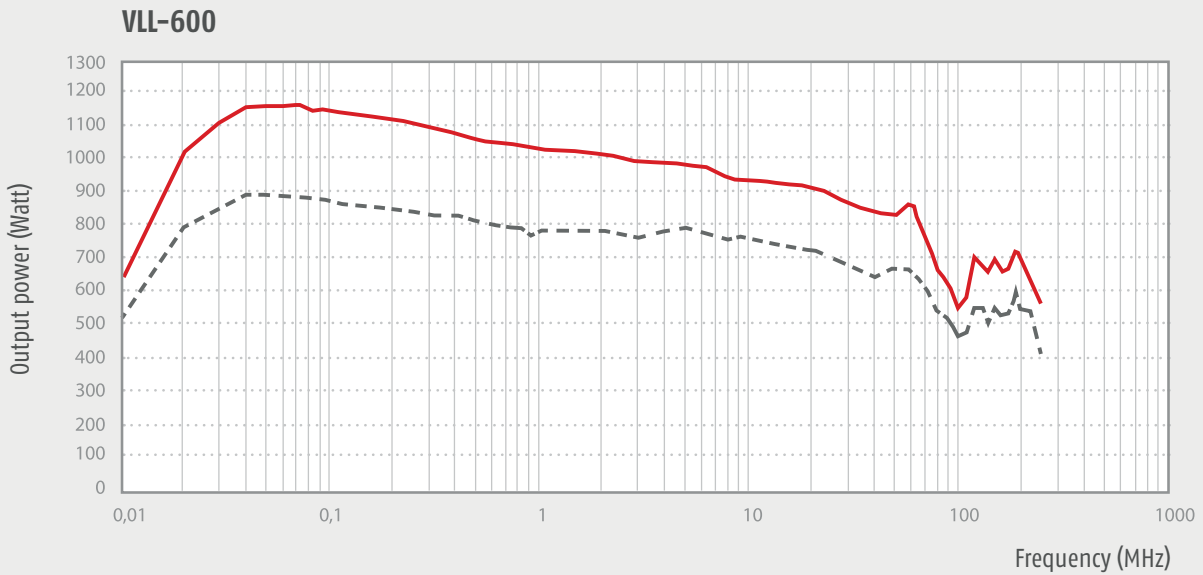
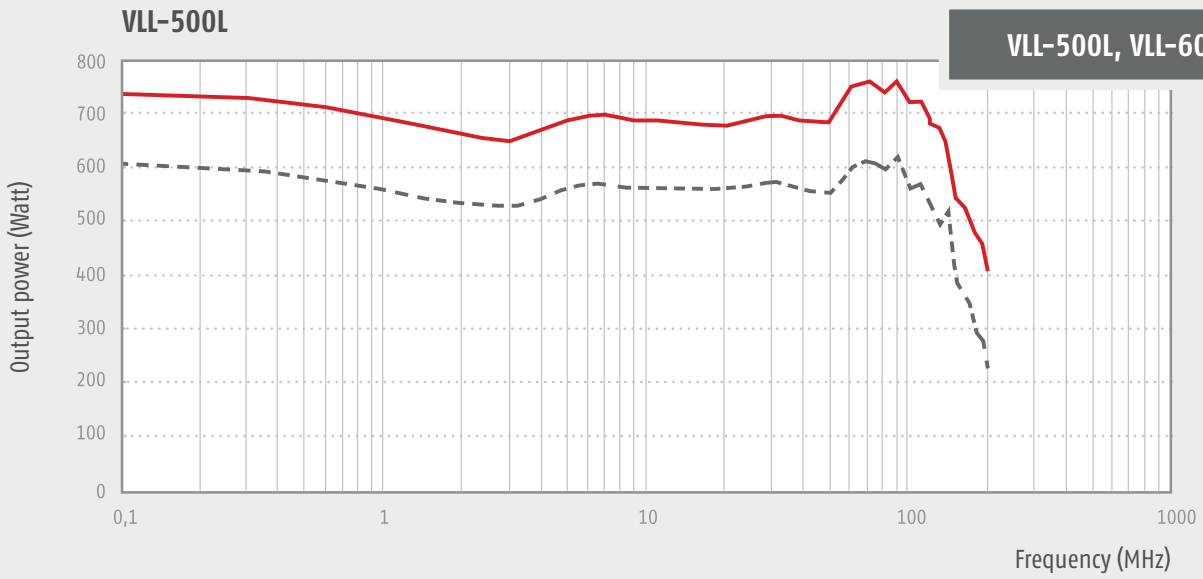
VLL-300



- Output Power (Compression max. = 3dB)
- Output Power (Compression max. = 1dB)

10 KHz – 300 MHz

Part Number	VLL-500L	VLL-600	VLL-1000L
Frequency range	100kHz-200MHz	10kHz-250MHz	100kHz-200MHz
Output Power typ.	500 W	600 W	1000 W
Output Power @ 1dB Compression, typ. min.	see diagramm	see diagramm	see diagramm
RF Input, max.	+10 dBm	+10 dBm	+10 dBm
Gain, typ.	+55 dB	+57 dB	+58 dB
Flatness, typ.	±3 dB	±3 dB	±3 dB
Input VSWR	2:1	2:1	2:1
Harmonics @ 1 dB comp.	H2, H3 <-20 dBc	H2, H3 <-20 dBc	H2, H3 <-20 dBc
Class type	A	A	A
Input / Output Impedance	50 Ω / 50 Ω	50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out	N(f)N(f)	N(f)N(f)	N(f) N(f)
Dimensions (mm)	W H D	640 312 (7 HU) 840	640 360 (8 HU) 450
Weight	44 kg	51 kg	54 kg
Rated current	8.7 A @ 230 VAC	11.1A @ 230VAC	15.2A @ 230VAC
Power Supply (VAC)	200-250, 47-63 Hz	200-250, 47-63 Hz	200-250, 47-63 Hz
Phases	1	1	1
Operating Temperature (°C) 0/+50	0 / +35	0 / +35	0 / +35
Room temperature storage (°C)	-20 / +70	-20 / +70	-20 / +70
Cooling / Forced Air	Self contained fans, 240l / sec. max.	Self contained fans, 120l / sec. max.	Self contained fans, 240l / sec. max.
Following types available:	D, DC	D, DC	D, DC



Output Power (compression max. = 1dB)

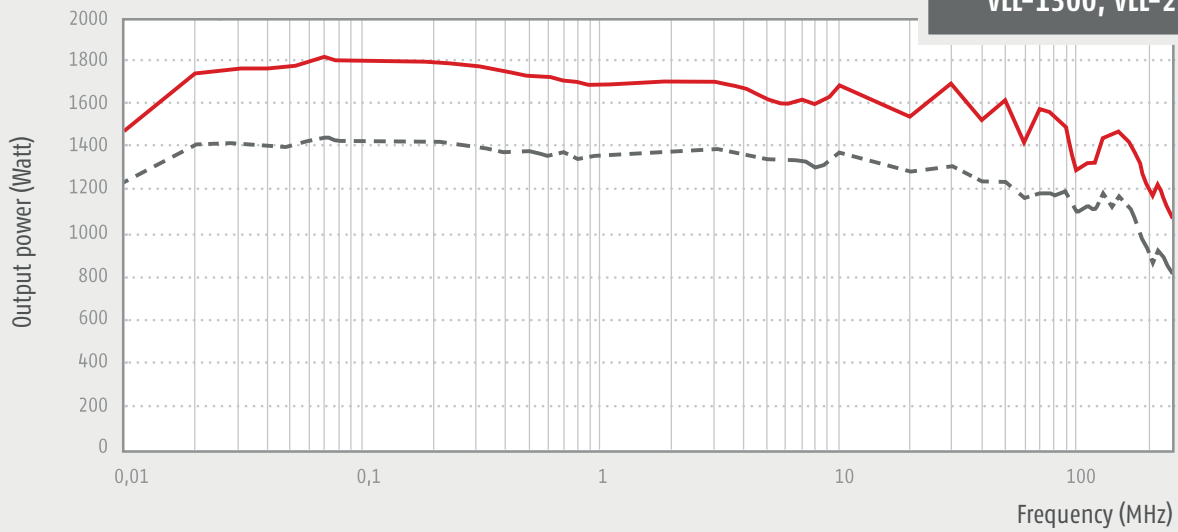
Output Power (compression max. = 3dB)

10 KHz – 300 MHz

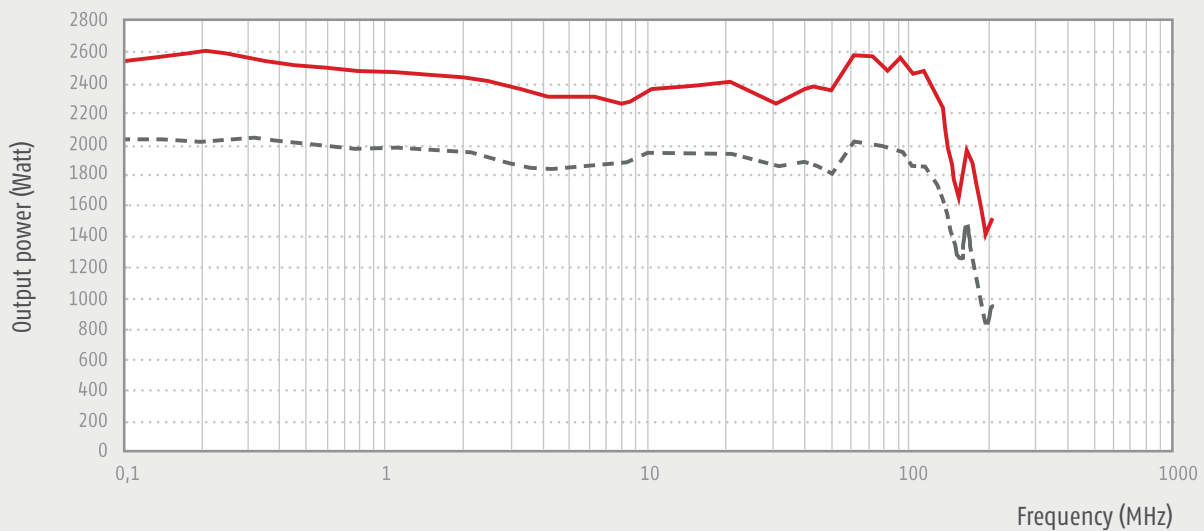
Part Number	VLL-1300	VLL-2000L	VLL-2500
Frequency range	10kHz-250MHz	100kHz-200MHz	10kHz-250MHz
Output Power typ.	1300 W	2000 W	2500 W
Output Power @ 1dB Compression, typ. min.	see diagramm	see diagramm	see diagramm
RF Input, max.	+10 dBm	+10 dBm	+10 dBm
Gain, typ.	+60 dB	+60 dB	+63 dB
Flatness, typ.	±2.5 dB	±3 dB	±3 dB
Input VSWR	2:1	2:1	2:1
Harmonics @ 1 dB comp.	H2, H3 <-20 dBc	H2, H3 <-20 dBc	H2, H3 <-20 dBc
Class type	A	A	A
Input / Output Impedance	50 Ω / 50 Ω	50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out	N(f) 7/16(f)	N(f) 7/16(f)	N(f) 7/16(f)
Dimensions (mm)	W H D	600 1050 (18 HU) 840	600 1050 (18 HU) 840
Weight	230 kg	230 kg	390 kg
Rated current	5,4kVA	7.2 kVA	10.35 kVA
Power Supply (VAC)	47-63 Hz	47-63 Hz	47-63 Hz
Phases	3	3	3
Operating Temperature (°C) 0/+50	0 / +35	0 / +35	0 / +35
Room temperature storage (°C)	-20 / +70	-20 / +70	-20 / +70
Cooling / Forced Air	Self contained fans 240l / sec. max.	Self contained fans 240l / sec. max.	Self contained fans 480l / sec. max.
Following types available:	DC	DC	DC

VLL-1300

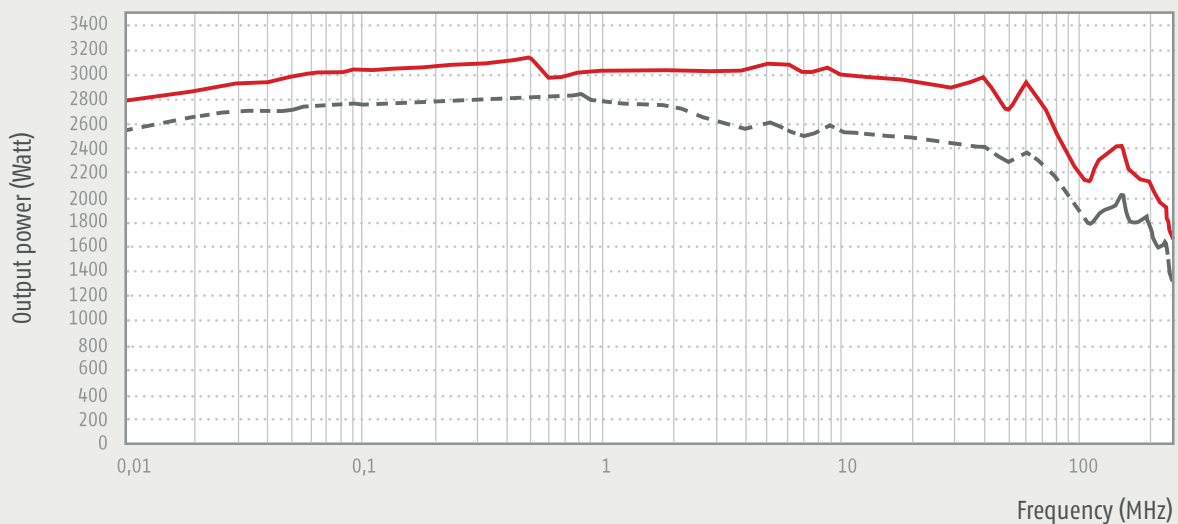
VLL-1300, VLL-2000L, VLL-2500



VLL-2000L



VLL-2500



Output Power (compression max. = 1dB)

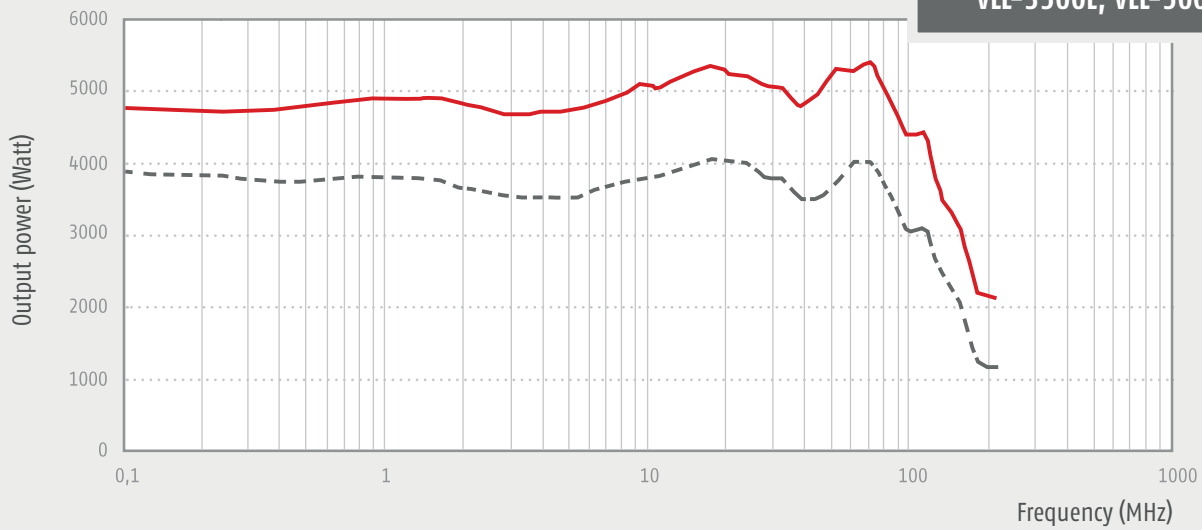
Output Power (compression max. = 3dB)

10 KHz – 300 MHz

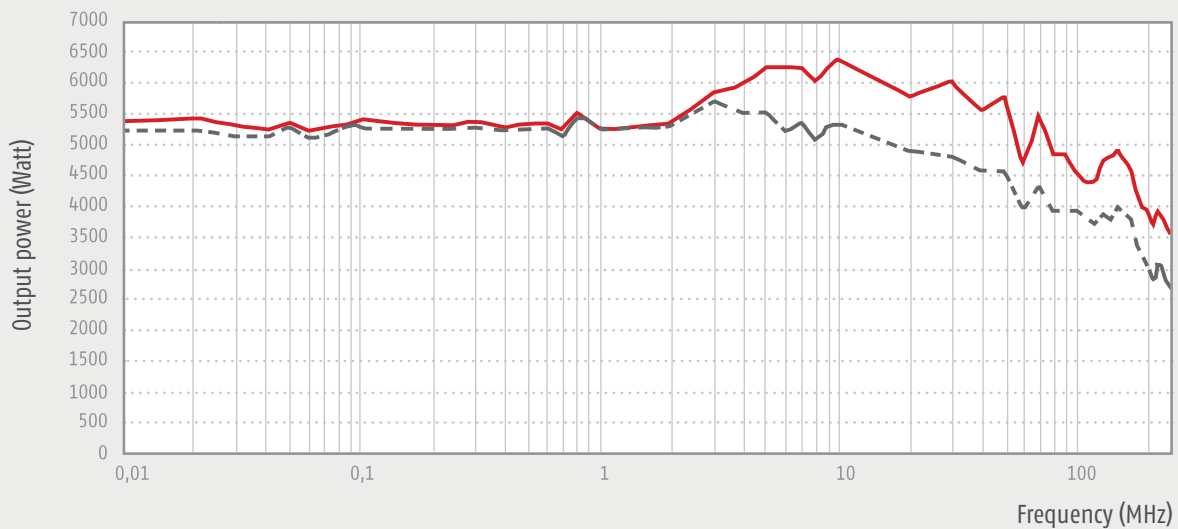
Part Number	VLL-3500L	VLL-5000	VLL-7000L
Frequency range	100kHz-200MHz	10kHz-250MHz	100kHz-200MHz
Output Power typ.	3500 W	5000 W	7000 W
Output Power @ 1dB Compression, typ. min.	see Diagramm	see Diagramm	see Diagramm
RF Input, max.	+10 dBm	+10 dBm	+10 dBm
Gain, typ.	+65 dB	+67 dB	+65 dB
Flatness, typ.	±3 dB	±4 dB	±3.5 dB
Input VSWR	2:1	2:1	2:1
Harmonics @ 1 dB comp.	H2, H3 <-20 dBc	H2, H3 <-20 dBc	H2, H3 <-20 dBc
Class type	A	A	A
Input / Output Impedance	50 Ω / 50 Ω	50 Ω / 50 Ω	50 Ω / 50 Ω
Connectors In / Out	N(f) 7/16(f)	N(f) 7/16(f)	N(f) EIA 1-5/8
Dimensions (mm)	W H D	800 840 (42 HU) 1590	800 840 (42 HU) 2120
Weight	390 kg	590 kg	400kg + 340kg
Rated current	15 kVA	21 kVA	29 kVA
Power Supply (VAC)	47-63 Hz	47-63 Hz	47-63Hz
Phases	3	3	3
Operating Temperature (°C)	0 / +35	0 / +35	0 / +35
Room temperature storage (°C)	-20 / +70	-20 / +70	-20 / +70
Cooling / Forced Air	Self contained fans 480 l / sec. max.	Self contained fans 960 l / sec. max.	Self contained fans 2 x 480l / sec. max.
Following types available:	DC	DC	DC

VLL-3500L

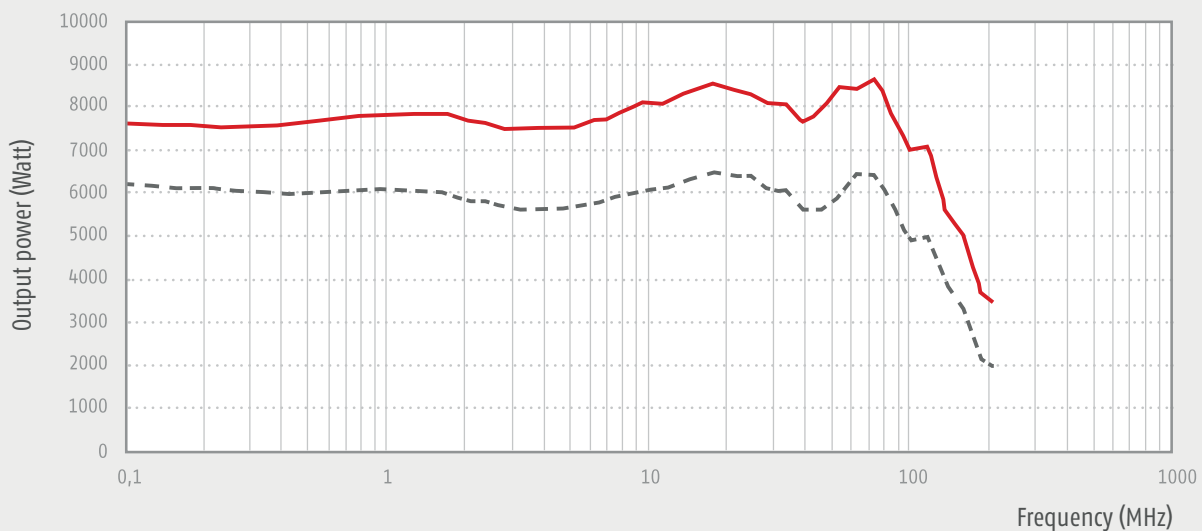
VLL-3500L, VLL-5000, VLL-7000L



VLL-5000



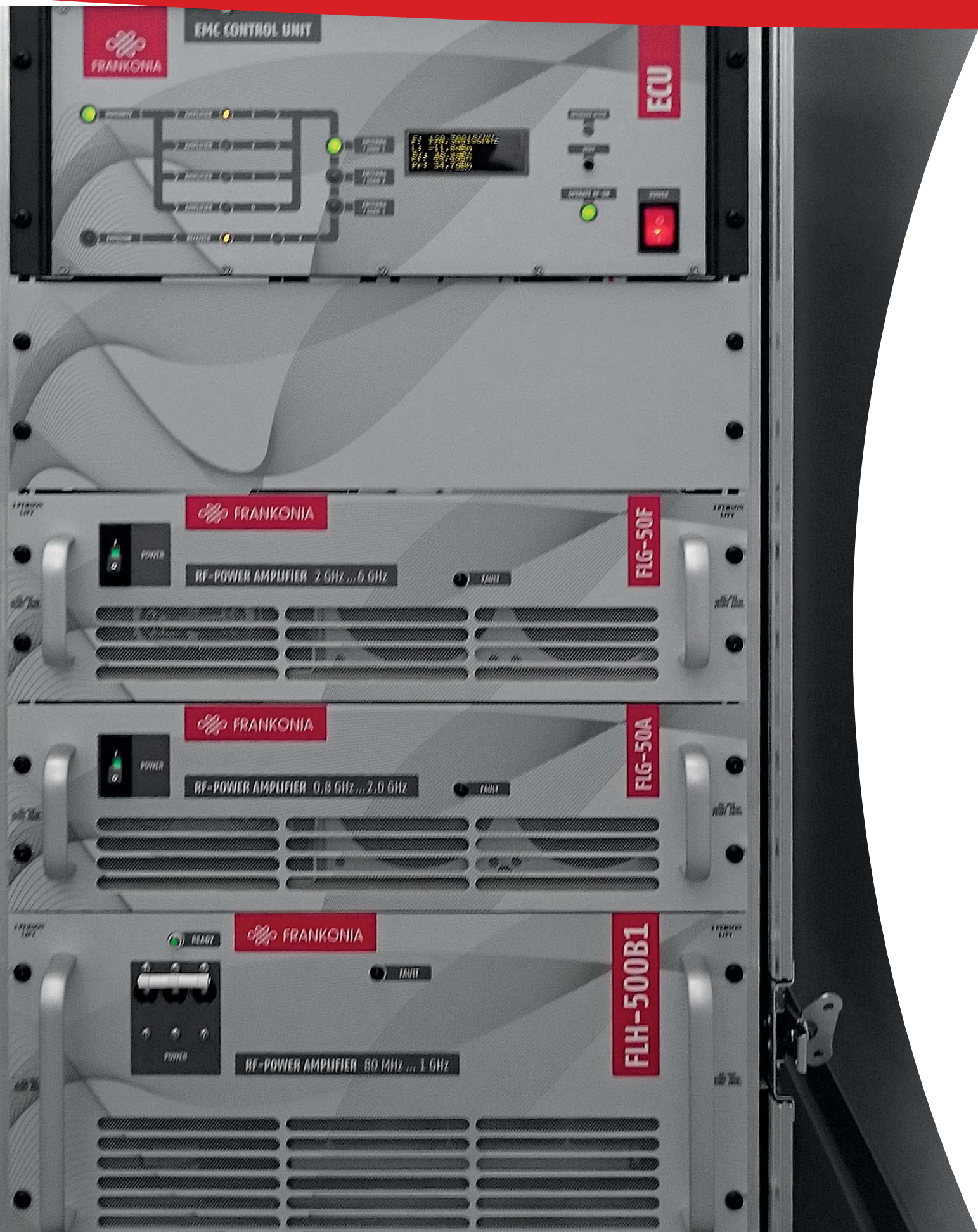
VLL-7000L



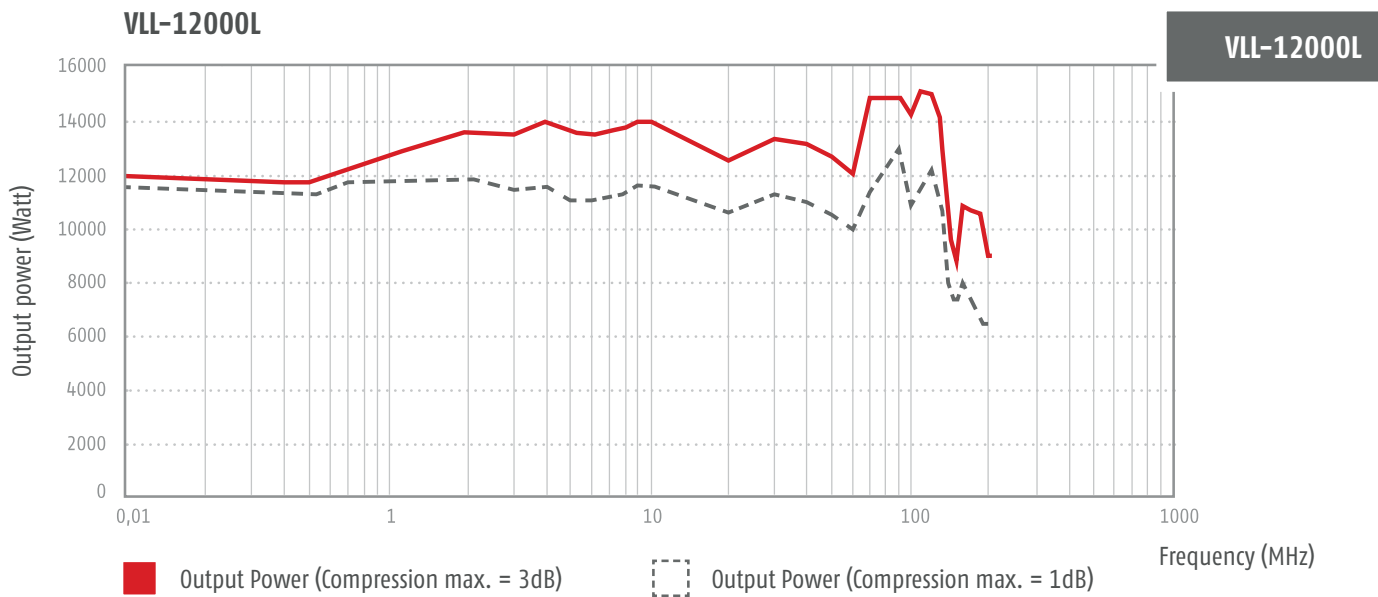
Output Power (compression max. = 1dB)

Output Power (compression max. = 3dB)

10 KHz - 300 MHz



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Part Number	VLL-12000L
Frequency range	100kHz-200MHz
Output Power typ.	12000 W
Output Power @ 1dB Compression, typ. min.	see Diagramm
RF Input, max.	+10 dBm
Gain, typ.	+68 dB
Flatness, typ.	±3 dB
Input VSWR	2:1
Harmonics @ 1 dB comp.	H2, H3 <-20 dBc
Class type	A
Input / Output Impedance	50 Ω / 50 Ω
Connectors In / Out	N(f) EIA 1-5/8
Dimensions (mm) W x H x D	2200 x 1950 (38 HU) x 840
Weight	1350 kg
Rated current	51 kVA
Power Supply (VAC)	47-63Hz
Phases	3
Operating Temperature (°C)	0 / +35
Room temperature storage (°C)	-20 / +70
Cooling / Forced air	Self contained fans 3 x 960l / sec. max.
Following types available:	DC