Solid State Power Amplifiers

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ver. 2.21 ● 2022-02-13 ● http://www.ok1rr.com/public/amp_overview.pdf

Type (model)	Power nominal (Watts)	Power out (Watts)	Active Device	160	80	60	40	30	20	17	15	12	10	6	4	IN	OUT	Tuner	T/R	QSK	CI-V	USB	RS-232	F [1]	UDP	TCI [18]	LAN	Remote [2]	PreDist	Weight (kg)	Dimensions W x H x D (cm)	Power	PSU	Other options	StandBy (3)	IMD3 (PEP) (2 tone)	SW update	Certified CE	Certified FC	Manufacturer (web site)
Acom 600S	600	600	MRFE6VP5 300H x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✓ m	REL	✖	✓	✖	✓	✓	✖	✖	✖	✓	✖	12	33 x 16,5 x 38	100-240 VAC	BUILT IN		< 1 W	> -31 dB	free	✓	✖	ACOM https://www.acom-bg.com/products/amplifier/acom-600s-6m-amplifier
Acom 700S	700	700	MRFE6VP6 1K2SN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✓ m	REL	✖	✓	✖	✓	✓	✖	✖	✖ (9)	✓	✖	13	32,6 x 14,3 x 36,5	100-240 VAC	BUILT IN		< 1 W	> -31 dB	free	✓	2AJXZ700S	ACOM https://www.acom-bg.com/products/amplifier/acom-700s-solid-state-18-54-mhz-linear-amplifier
Acom 1200S	1 000	1 000	BLF188XR x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✓ m	REL	✖	✓	✖	✓	✓	✖	✖	✖ (9)	✓	✖	14,5	37,2 x 17,1 x 42,7	93 265 VAC 2000 VA <180 VAC [13]	BUILT IN		< 1 W	> -31 dB	free	✓	2AJXZ1200S	ACOM https://www.acom-bg.com/products/amplifier/acom-1200s-solid-state-18-54-mhz-linear-amplifier
Ameritron ALS-600	600	500	MRF150 x4	✓	✓	✓	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✖	✖	1	1	✖	REL	✓ [11]	✖	✖	✖	✓ m	✖	✖	✖	✓	✖	5,7 (AMP) 14,75 (lin.PSU) 4,5 (sw. PSU)	24,1 x 15,2 x 30,5 (AMP) 24,1 x 15,2 x 35,6 (PSU)	120 or 240 VAC	SEPARATE			> -25 dB	n/a			MFJ Enterprises https://mfjenterprises.com/products/als-600
Ameritron ALS-606	600	500	MRF150 x4	✓	✓	✓	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✓	✖	1	1	✖	REL	✓ [11]	✖	✖	✖	✓ m	✖	✖	✖	✓	✖	5,7 (AMP) 14,75 (lin.PSU) 4,5 (sw. PSU)	24,1 x 15,2 x 30,5 (AMP) 24,1 x 15,2 x 35,6 (PSU)	120 or 240 VAC	SEPARATE			> -25 dB	n/a			MFJ Enterprises https://mfjenterprises.com/products/als-606
Ameritron ALS-1300	1 300	1 200	MRF150 x8	✓	✓	✓	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✓	✖	1	1	✖	REL	✓ [11]	✖	✖	✖	✓ m	✖	✖	✖	✓	✖	10,4 (AMP) 6,8 (PSU)	26,7 x 17,2 x 48,3 (AMP) 26,7 x 17,2 x 33,7 (PSU)	100-135 VAC 20A 200-260 VAC 12A 40-400 Hz	SEPARATE			> -25 dB	n/a			MFJ Enterprises https://mfjenterprises.com/products/als-1300
Ameritron ALS-1306	1 300	1 200	MRF150 x8	✓	✓	✓	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✓	✖	1	1	✖	REL	✓ [11]	✖	✖	✖	✓ m	✖	✖	✖	✓	✖	10,4 (AMP) 6,8 (PSU)	26,7 x 17,2 x 48,3 (AMP) 26,7 x 17,2 x 33,7 (PSU)	100-135 VAC 20A 200-260 VAC 12A 40-400 Hz	SEPARATE			> -25 dB	n/a			MFJ Enterprises https://mfjenterprises.com/products/als-1306
Azden AZR-1000	1 000	1 000	MRF1K50H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	5	✖	REL	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	13	30 x 14 x 40	100-240 VAC, 50/60 Hz	BUILT IN			> -30 dB @ 1 kW	free			Azden https://www.azden.co.jp/features/AZR-1000.html
Burst-1000A	1 200	1 200 [6]	MRF1K50H	✓	✓	✖	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✖	REL	✖	✓	✖	✓	✓	✖	✖	✓	✓	✖	14	31 x 15,3 x 35,3	85 ~ 300 VAC	BUILT IN		< 1 W	> -31 dB	free	✖	✖	BURST AMPLIFIER https://burstlf.com/
Burst-2000A	2 400	2 200 [6]	MRF1K50H x2	✓	✓	✖	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✖	REL	✖	✓	✖	✓	✓	✖	✖	✓	✓	✖	18	39,5 x 15,3 x 35,3	85 ~ 300 VAC 85 ~ 175 VAC [7]	BUILT IN			> -31 dB	free	✖	✖	BURST AMPLIFIER https://burstlf.com/
Dishtronix Prometheus DX2400L1	1 500	1 500 (100% duty cycle)	?	✓	✓	✓	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✓	✖	2	4	✖	REL (18)	(18)	✓	✖	✓	✓	?	✖		✓	?	25 (AMP) 54,4 (lin.PSU) 24,5 (sw. PSU)	43,2 x 26,7 x 56 (AMP) 17,8 x 43,2 x 56 (lin. PSU) (19) 17,8 x 43,2 x 56 (sw. PSU) (20)	230 ± 10 VAC, 50/60 Hz, 5 KVA (lin. PSU) (19) 180-264 VAC, 50/60 Hz, 14 KVA (sw. PSU) (20)	SEPARATE			> -30 dB	free	✖		Dishtronix https://www.dishtronix.com/prometheus.html
Elecraft KPA1500	1 500	1 500 (100% duty cycle)	BLF188XR x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	2	✓	PIN	✓	✓	✓	✓	✓	✓	✖	✓	✓	✓	9,8 (AMP) 7,1 (PSU)	34 x 11,5 x 29 cm (AMP) 34 x 11,5 x 29 (PSU)	195-250 VAC 50-60 Hz 20A	SEPARATE			>-32 ~ -35 dB	free		UTR-KPA1500	Elecraft https://elecraft.com/products/kpa1500-amplifier
Elecraft KPA500	500	500 (100% duty cycle)	VRF2933 x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✖	PIN	✓	✖	✖	✖	✓	✓	✖	✖	✓	✖	12	28,4 x 11,2 x 30,0	100-120, 200-240 VAC, 50/60 Hz, 20A	BUILT IN			?	free			Elecraft https://elecraft.com/products/kpa500-compact-160-6-m-solid-state-amplifier
HAL1200 Atlantic	1 000	1 200	SD2933 x4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✖	REL	✖	✓	✖	✓	✓	✖	✖	✖	✖	✖	9	26,1 x 15,3 x 33,4	100 ~ 260 VAC / 16 ~ 10 A max.	BUILT IN			> -34 dB	?			GB Hardware & Software http://www.gbhs.it/Products12.html
Hilberling HPA-8000B	1 000	1 000	BLF188XR x2	✓	✓	✖	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	4	✓	REL	✖	✓	✓	✓	?	✖	✖	✖	✖	✓	19,8	42,5 x 17,3 x 45,9	200-260 VAC 13A	BUILT IN			?	free	✓	V84HPA8000B-54	Hilberling https://www.hilberling.de/amateurfunk/
Icom IC-2KL	500	500	2SC2652 x4	✓	✓	✖	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✖	✖	1	1	✖	REL	✖	✓	✖	✖	✖	✖	✖	✖	✖	✖	13,6	24,1 x 11,1 x 30	117-240 VAC, 50/60 Hz	SEPARATE	(17)		?	n/a			not available
Icom IC-4KL	1 000	1000 12 & 10 m 800	2SC2652 x8	✓	✓	✖	✓	✓	✓	✓	✓	✓ (10)	✓ (10)	✖	✖	1	1	✓	REL (vacc.)	✖	✓	✖	✖	✖	✖	✖	✖	✖	✖	36	42,5 x 29,7 x 45,8	117-240 VAC, 50/60 Hz	SEPARATE	(17)		?	n/a			not available
Icom IC PW-1	1 000	1 000	MRF150 x8	✓	✓	✖	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	4	✓	REL	✖	✓	✖	✖	✖	✖	✖	✖	✓ m	✖	25	35 × 26,5 × 37,5	100-120 VAC 200-240VAC	BUILT IN			?	n/a	✓		ICOM https://www.icomamerica.com/en/products/amateur/hf/pw1/default.aspx
JUMA PA1000	1 000	1 000	BLF188XR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	1	✖	REL	✖	✓	✖	✓	✓	✖	✖	✖	✓	✖	5,5	26 x 13,5 x 30	115 or 230 VAC [9] 50 Hz 6,3 A	BUILT IN		5 W	> -28 dB @ 1 kW	free	✓		JUMA http://www.jumaradio.com/juma-pa1000/
KM3KM Mercury IIIS	1 000	1 200	BLF189XRA x1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	3	✖	REL	✖	✖	✖	✖	✓	✖	✖	✖	✖	✖	11,8	30,5 x 14,0 x 34,3	230 VAC	BUILT IN			> -30 dB @ 1 kW	free			KM3KM Electronics, LLC https://www.km3km.com/elementor-1915/
LA2KS by RFpower	1 500	1 500	MRF1K50H x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	3	✖	REL	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	14	35 x 17 x 43	180-264 VAC 50/60 Hz	BUILT IN			> -30 dB @ 1500 W	free	✓		RFpower by Radiocontrolli https://www.rfpower.it/la2kS.html
LINEAR Amp Gemini HF-1K	1 000	1 000	BLF188XR x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	3	✖	PIN	✓	✖	✖	✖	✓	✖	✖	✓	✓	✓	19	37 x 18 x 36	100-260V 50-60 Hz, 10 A	BUILT IN	(14) (15)		> -30 dB @ 1 kW	free	✓		Linear Amp UK https://www.linearamp.co.uk/gemini_HF.html
LINEAR Amp Gemini DX1200	1 200	1 200	BLF188XR x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	3	✖	REL (vacc.)	✓	✖	✖	✖	✓	✖	✖	✓	✓	✓	15,5	27,8 x 15,7 x 38,0	100-260V 50/60Hz	BUILT IN	(15)		> -30 dB @ 1 kW	free	✓		Linear Amp UK https://www.linearamp.co.uk/DX1200.html
Palstar LA-1K	1 000	1 000 (100% duty cycle)	MRF6VP5600H x2	✓	✓	✓	✓	✓	✓	✓	✓	✓ (12)	✓ (12)	✓	✖	1	3	✖ m	REL (vacc.)	✓	✓	✖	✓	✓	✖	✖	✖	✓	✓	12,25	23.4 x 15.9 x 41.9	100VAC-250VAC /50V @40A	BUILT IN			> -35 dB	free			Palstar http://www.palstar.com/en/la1k/
PGXL	1 500	1 500 (100% duty cycle)	MRF1K50HRS x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	2	✖ m	REL	✖	✓	✖	✓	✓	✓	✓	✖	✓	✓	17	35 x 15 x 50	90-250 VAC 50-60 Hz, 15A	BUILT IN	(13) (16)	< 10 W	-46 dB (15m)	free	✓	2AK7NSKYPGXL001	FlexRadio https://www.flexradio.com/products/powergenius-xl/
RF-KIT B26-PA RF2K-S	1 500	1 500 (100% duty cycle)	BLF189XRB x2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	1	4 [4]	✓	PIN	✓ < 1 ms	✓	✓	✓(8)	✓	✓	✓	✓	✓	✓	16	31 x 19 x 42,5	90-290 VAC 50-60 Hz	BUILT IN		80/8 W	up to -40 dB	free		2AW84RF2K-S	RF-KIT https://rf-kit.de/
SPE Expert 1K-FA	1 000	1000 PEP SSB 900 CW	MRF150 x6	✓	✓	✖	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	4	✓	REL	✓ < 6 ms	✓	✓	✓(8)	✓	✓	✖	✖	✖	✓	20	28 x 14 x 32	100-255 VAC	BUILT IN			-30 to -35 dB	free	✓	UW31K-FA	Società Per L'Elettronica http://www.spetlc.com/en/products/expert-1k-fa-uk.html
SPE Expert 1.3K	1 300	1 300	MRF1K50H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	4	✖	REL	✓ < 6 ms	✓	✓	✓(8)	✓	✖	✖	✖	✓	✖	7,5	28 x 12 x 38	100-255 VAC	BUILT IN			-30 to -35 dB	free	✓	2ADKSGC324809	Società Per L'Elettronica http://www.spetlc.com/en/products/expert-13k-fa-uk.html
SPE Expert 1.3K-FA	1 300	1 300	MRF1K50H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	4	✓	REL	✓ < 6 ms	✓	✓	✓	✓	✖	✖	✖	✓	✖	9,5	28 x 12 x 38	100-255 VAC	BUILT IN			-30 to -35 dB	free	✓	2ADKSGC324809	Società Per L'Elettronica http://www.spetlc.com/en/products/expert-13k-fa-uk.html
SPE Expert 1.5K-FA	1 500	1 500	MRFX1K80H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ (7)	2	4	✓	REL	✓ < 6 ms	✓	✓	✓	✓	✖	✖	✓(10)	✓	✓	12	28 x 12 x 38	100-255 VAC	BUILT IN			-30 to -35 dB	free	✓	2ADKSGC324810	Società Per L'Elettronica http://www.spetlc.com/en/features-3kfa.html
SPE Expert 2.0K-FA	2 000	2 000	MRF1S1G x6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✖	2	6	✓	REL	✓ < 6 ms	✓	✓	✓	✓	✖	✖	✖	✓	✖	25	38 x 18.3 x 43	190-255 VAC	BUILT IN			-30 to -35 dB	free	✓	Y9C2K-FA	Società Per L'Elettronica http://www.spetlc.com/en/products/expert-2k-fa-uk.html
Yaesu Quadria VL-1000	1 200	1 000	MRF150 x8	✓	✓	✖	✓	✓	✓	✓	✓	✓ (12)	✓ (12)	✓	✖	2	4	✓	REL	✖	✖	✖	✖	✖	✖	✖	✖	✓	✖	21	41 × 13,5 × 36,9 (AMP) 41 × 13,5 × 41 (PSU)	120 or 240 VAC	SEPARATE			> -30 dB @ 1 kW	n/a			Yaesu https://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=102&encProdID=261A83C4

Corrections & additions send please to:
martin@ok1rr.com

Power out printed in RED – can deliver full legal limit

LEGEND:

✓	YES
✖	NO
?	DATA NOT AVAILABLE
	DISCONTINUED PRODUCT

NOTES:

(1) Frequency sensing, auto band switching
(2) Remote via LAN/Internet
(3) AC Power consumption: PA in StandBy, PA in Sleep mode
(4) Plus 16 external antennas
(5) TCI Sun SDR IP interface
(6) Water cooled
(7) Reduced output power
(8) CI-V possible with USB adapter cable
(9) Optional
(10) Optional modification kit needed
(11) Optional PIN diode T/R switching board needed
(12) Factory locked, unlocking needed to operate
(13) PGXL – SO2R capable:
1. PGXL can be ordered for 1 Input and 3 Output (Antenna) plus extension via Antenna Genius OR
2. with SO2R capability: 2 Transmitters and 2 Output (Antenna) which can be extended via Antenna Genius as well.
(14) Operation on 472 kHz requires the use of an external Low Pass Filter (not supplied)
(15) No provision for ALC
(16) META system (Maximum Efficiency Algorithm) control efficiency as function of output power
(17) Dedicated Remote Controller required
(18) PIN diode QSK T/R switching optional
(19) Linear PSU
(20) Switching PSU
(21) SO2R capable - optional

ADJUST PRINTING AREA TO A4 LANDSCAPE!

The details provided in this document are to the best of my knowledge correct but products are subject to development and their specifications to change. Each manufacturer listed has been sent a copy of this document. Corrections and amendments can be made where notified.