

Microwave Generators — 2450MHz

Generator System	Microwave Power (kW)	Cooling	Magnetron Head	Power Supply
GEN1.2KW, SM445†	1.2	Air or Water	TMA / TMO / MHx.x	SM445
GEN2.0KW; SM745†	2.0	Air or Water	TMA / TMO / MHx.x	SM745
GEN2.0KW; SM840†	2.0	Air or Water	TMA / TMO / MHx.x	SM840
GEN3.0KW; SM1250†	3.0	Air or Water	TMA / TMO / MHx.x	SM1250
GEN6KW, MG10-Series†	6.0	Water	UWHEAD6.0	MG10
GEN6KW, SM1280-Series‡	6.0	Water	TM066	SM1280
GEN10KW, SM1690-Series‡	10.0	Water	TM100	SM1690
GEN15KW, MPS-Series‡	15.0	Water	UWHEAD15	MPS24
GEN20KW, MPS-Series‡	20.0	Water	UWHEAD20	MPS28
GEN30KW, MPS-Series‡	30.0	Water	UWHEAD30	MPS48

† Generators have standard WR340 waveguide output. Other output options available upon request
 ‡ Generators have standard WR430 waveguide output. Remote Head or Integrated systems available.

Microwave Generators — 915MHz

Generator System	Microwave Power (kW)	Power Supply Options	Input Power
GEN5KW915	5.0	Switch-mode or Conventional	3Ø; 400 & 480
GEN30KW915	30.0	Switch-mode or Conventional	3Ø; 400 & 480
GEN60KW915	60.0	Switch-mode or Conventional	3Ø; 400 & 480
GEN75KW915	75.0	Switch-mode or Conventional	3Ø; 400 & 480
GEN100KW915	100.0	Switch-mode or Conventional	3Ø; 400 & 480

Generators have standard WR975 waveguide output.
 Generators require both air and water cooling.

Power Supplies: Magnetron Power Range .8kW-6.0kW @ 2450MHz

Model Number	Electric Output Power (W)	Microwave Power (kW)	Input Mains (V _{AC})	Output Ripple	Dimensions (mm)	Weight (kg)
CM340	1300	0.88	1Ø; 180 - 265	High	280 x 180 x 178	6.3
CM440	1550	1.25	1Ø; 180 - 265	High	280 x 180 x 178	6.3
SM445	1800	1.25	2Ø; 180 - 265	Low <5%	375 x 450 x 85	11
FR/CR840T	3000	2.0	3Ø; 400	Low <5%	170 x 190 x 387	10
SM745	2800	2.0	2Ø; 180 - 265	Low <5%	375 x 450 x 85	11
SM840	3000	2.0	2Ø; 180 - 265	Low <5%	420 x 450 x 85	12.2
SM1150	5000	3	3Ø; 208 & 400	Low <5%	420 x 450 x 130	17.3
SM1250	5000	3	3Ø; 208 & 400	Low <5%	420 x 450 x 130	17.3
SM1280	8600	6	3Ø; 208, 400 & 480	Low <3%	482 x 444 x 301	35
MG10	8600	6	3Ø; 208, 400 & 480	Low <5%	482 x 482 x 266	34
SM1690	14000	10	3Ø; 400	Low <5%	482 x 444 x 301	35

Power Supplies: High Power Multi-Chassis

Model Number	Electric Output Power (kW)	Microwave Power (kW)	Input Mains (V _{AC})	Inverter Unit	Overall Dimensions (mm)	Weight (kg)
MPS24	24	15	3Ø; 400 & 480	1 x SM1816	444 x 475 x 440	71
MPS48	48	30	3Ø; 400 & 480	2 x SM1816	755 x 475 x 440	126
MPS72	72	60	3Ø; 400 & 480	3 x SM1816	1066 x 475 x 440	181
MPS96	96	75	3Ø; 400 & 480	4 x SM1816	1377 x 475 x 440	236
MPS120	120	100	3Ø; 400 & 480	5 x SM1816	1688 x 475 x 440	291

* Inverter chassis require both air and water cooling.

Power Supplies: Pulse Power

Model Number	Electric Power (W)	Microwave Power CW/Pulse (kW)	Input Power (V)	Output Ripple	Dimensions (mm)	Weight (kg)
PM740	2500	1.7/8.0	3Ø; 400	Low	480x122x430	19

Magnetron Heads: 2450MHz — .8-10kW @ 2450MHz

Model Number	Power (kW)	Configuration	Cooling
MHx.xW-S	1.2, 2.0, 3.0, 6.0	Standard	Water
TMA	.8, 1.2, 2.0, 3.0	Standard	Air
TMO	.8, 1.2, 2.0, 3.0	Standard	Water
MHx.xW-S-CH	1.2, 2.0, 3.0, 6.0	Compact w/ Isolauncher	Water
TXA	1.2, 2.0, 3.0	Open Frame	Air
TXO	1.2, 2.0, 3.0	Open Frame	Water
TMO66	6.0	Standard	Air & Water
TM100	10.0	Standard	Air & Water
TIOxO	1.2, 2.0, 3.0	Compact w/ Isolauncher	Water

* Generators have standard WR340 waveguide output. Other output options available upon request.

Magnetrons — 2450MHz

Model Number	Power (kW)	Cooling
2M107A	0.88	Air; Water
2M246	1.0	Air
2M137/YJ1540	1.25	Air; Water
2M121/NL10254	1.45	Air; Water
2M130/NL10250	2.0	Air; Water
NL10230	3.0	Air; Water
2M251/2M252	3.0	Air; Water
YJ1600	6.0	Air & Water
AM3881	6.0	Air & Water
NL10245	10.0	Air & Water
NL20245	20.0	Air & Water
NL30245	30.0	Air & Water

Magnetrons — 896, 915, 922MHz

Model Number	Power (kW)
NL10257	5.0
NLM915-30	30.0
NLM915-60	60.0
NLM915-75	75.0
NLM915-100	100.0

* Magnetrons require both air and water cooling.

Waveguide Components

Type	Frequency		
	2450MHz	915MHz	5.8GHz
Auto-tuners	x	x	—
Circulators & Isolators	x	x	x
Directional Couplers	x	x	x
Isolauncher	x	—	x
Manual Tuners	x	x	x
Quartz Windows	x	x	x
Sliding Shorts	x	x	x
Water-loads	x	x	x
Waveguide Bends	x	x	x
Waveguide Coaxial Transitions	x	x	x
Waveguide Transitions	x	x	-
Waveguides & Flanges*	x	x	x

* Waveguides & Waveguide Assemblies from WR75 to WR975 are available upon request.



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Richardson Electronics has the industrial microwave products you need...

- 2450MHz – Output power range from 100W to 30kW in WR284, WR340, and WR430 waveguide
- 915MHz/896MHz/922MHz – Power range from 5kW to 100kW in WR975 waveguide
- 5.8GHz – Output power capabilities at 700W & 1000W in WR159 waveguide

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