

S SERIES GENERATOR

(For generators made after 3/1/2025, starting with serial number GR26520)

RADIOGRAPHIC SPECIFICATIONS

Model	320S	400S	500S	650S	800S
Part#	08105*	08106*	08107*	08108*	08109*
Power	32kW	40kW	50kW	65kW	80kW
kVp Range	40-125	40-125	40-150	40-150	40-150
mA Range	10-400	10-500	10-630	10-630	10-1000
mAs Range	0.1-630	0.1-630	0.1-630	0.1-800	0.1-1000

ELECTRICAL SPECIFICATIONS

Generator Model	320S		400S		500S		650S	800S		
Max Momentary Input	54,000 VA		66,000 VA		80,000 VA		99,000 VA	123,000 VA		
Line Phase	1PH	3PH	1PH	3PH	1PH	3PH	3PH	3PH		
Min Distribution Xfrmr	75kVA	3x25kVA	75kVA	3x25kVA	100kVA	3x37.5kVA	3x37.5kVA	3x50kVA		
Line Frequency	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60		
NOMINAL LINE VAC +/- 10%*	208 (202 to 214)	Power Supply #	07147-002	07147-004	07147-008	07147-010	07147-013	07147-014	-	-
		Line Match #	00530-000	07287	00530-000	07287	08326	07287	-	-
		Min Disconnect	130A	75A	159A	92A	192A	111A	-	-
		Min Cu wire run (AWG@FT)	2@50 1/0@100 3/0@150 4/0@200	6@50 2@100 1@150 1@200	2@50 2/0@100 4/0@150 4/0@200	4@50 2@100 1/0@150 2/0@200	1@50 3/0@100 250MCM @150 300MCM @200	4@50 1@100 2/0@150 3/0@200	-	-
	220 (213 to 229)	Power Supply #	07147-002	07147-004	07147-008	07147-010	07147-013	07147-014	-	-
		Line Match #	00530-000	07287	00530-000	07287	08326	07287	-	-
		Min Disconnect	123A	71A	150A	87A	182A	105A	-	-
		Min Cu wire run (AWG@FT)	4@50 1@100 2/0@150 3/0@200	6@50 4@100 2@150 1@200	2@50 1/0@100 3/0@150 4/0@200	6@50 2@100 1@150 1/0@200	1@50 3/0@100A 250MCM @150 300MCM @200	4@50 2@100 1/0@150 2/0@200	-	-
	240 (230 to 250)	Power Supply #	07147-002	07147-004	07147-008	07147-010	07147-013	07147-014	-	-
		Line Match #	-	-	-	-	-	-	-	-
		Min Disconnect	113A	65A	138A	80A	167A	96A	-	-
		Min Cu wire run (AWG@FT)	4@50 1@100 2/0@150 3/0@200	6@50 4@100 2@150 1@200	2@50 1/0@100 3/0@150 4/0@200	6@50 2@100 1@150 1/0@200	2@50 2/0@100 4/0@150 250MCM @200	4@50 2@100 1/0@150 2/0@200	-	-
	400 (361 to 428)	Power Supply #	-	-	-	07147-011	-	07147-015	07147-017	07147-019
		Line Match #	-	-	-	-	-	-	-	-
		Min Disconnect	-	-	-	48A	-	58A	72A	89A
		Min Cu wire run (AWG@FT)	-	-	-	10@50 8@100 6@150 4@200	-	10@50 6@100 4@150 4@200	8@50 6@100 4@150 2@200	8@50 4@100 2@150 2@200
	480 (461 to 504)	Power Supply #	-	-	-	07147-012	-	07147-016	07147-018	07147-020
		Line Match #	-	-	-	-	-	-	-	-
		Min Disconnect	-	-	-	40A	-	48A	60A	74A
		Min Cu wire run (AWG@FT)	-	-	-	12@50 8@100 8@150 6@200	-	10@50 8@100 6@150 4@200	10@50 6@100 4@150 4@200	8@50 6@100 4@150 2@200

* Notes:

- 230VAC labeled generator operates from 208VAC to 240VAC lines. A line match transformer is only needed if specified in the chart above.
- The power supply# and the line match# are the required options to operate the generator at the specified

nominal Line VAC

3. Maximum VAC drop under load at the generator input is 5%
4. Run "RUN" is defined as length of wire between the building's main incoming electrical panel and the service disconnect switch in the X-ray room.
5. The generator does not provide 110/120 VAC supply.
6. Auxiliary power supplies: 24VAC@6A and 24VDC@10A
7. Min disconnect: Refers to the minimum Amp rating of the current protection whether it is via a circuit breaker or a fused disconnect switch. See NEC 660.5 for details.

Min Disconnect Amps = Max momentary Amps/2

1PH Max Momentary Amps = Max Momentary Input/Nominal Line VAC.

3PH Max Momentary Amps = Max Momentary Input/Nominal Line VAC/ $\sqrt{3}$

Common Fused Disconnect sizes:

50A, 60A, 100A, 200A

Common Circuit Breaker sizes:

1PH/240: 125A, 150A; **3PH/240:** 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A; **3PH/480:** 40, 50, 60, 70, 80, 90, 100

ENVIRONMENTAL OPERATING SPECIFICATIONS

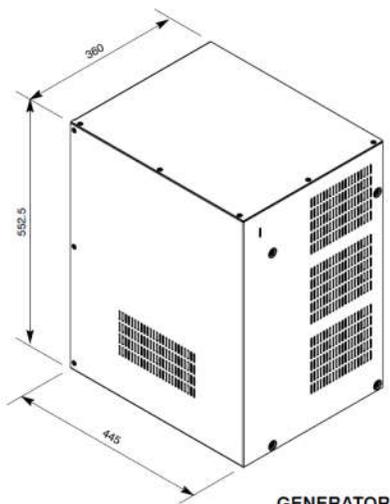
Ambient temperature range	Relative humidity range	Atmosphere pressure range
50°F (10°C) to 104°F (40°C)	30% to 75%	20.67 inHg (700 hPa) to 31.30 inHg (1060 hPa)

TUBE COMPATIBILITY LIST

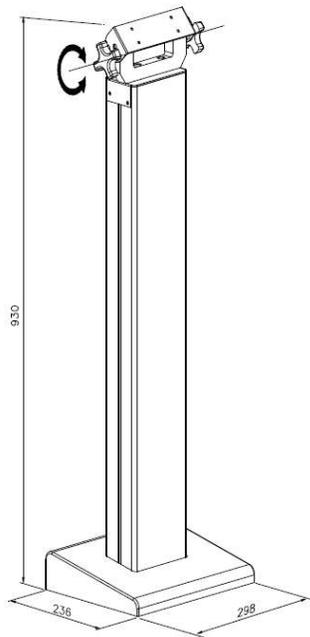
TOSHIBA	VARIAN
7239, 7242, 7252-AL, 7252-RA, 7254, 7255, 7869, 7884	RAD14, RAD56

DIMENSIONS

COMPONENT	Length	Width	Height	Weight
CRATED Generator (Shipping Information)	1070 mm (42.1")	620 mm (24.4")	740 mm (29.1")	92 kg (203 lb)
Generator with Leveling Legs	445 mm (17.5")	360 mm (14.2")	564.5 mm (22.2")	65 kg (143 lb)
Pedestal	298 mm (11.7")	236 mm (9.3")	930 mm (36.6")	10 kg (22 lb)
RAD Console Graphic Display	430 mm (16.9")	290 mm (11.4")	50 mm (1.9")	6 kg (13.2 lb)



GENERATOR



PEDESTAL



RAD CONSOLE - GRAPHIC DISPLAY