

## DOCTOR GEAR BOX DRIVEN DOUBLE BEARING AC GENERATORS

### PERFORMANCE CHART FOR AC ALTERNATORS AT 1500 RPM

Sr. No.	Model No.	kVA (Max. Current)	Brush/Slipring Type - A2S Voltage Regulation $\pm$ 5%	Engine HP Suitable for 0.8PF (lag)
<b>1 Phase, 240 Volts, 50Hz, 4 Pole</b>				
1	FMAS - 25	2.5 (10.4)	112 SC (65.0)	3.5 / 5
2	FMAS - 30	3.0 (12.5)	112 SC (67.0)	5 / 6.5
3	FMAS - 35	3.5 (14.6)	112 MB (69.0)	6.5 / 7.5
4	FMAS - 40	4.0 (16.7)	112 LB (71.0)	7.5 / 8.5
5	FMAS - 50	5.0 (20.8)	132 MA (76.0)	8.5 / 10
6	FMAS - 60	6.0 (25.0)	132 MC (78.0)	10 / 10.5
7	FMAS - 75	7.5 (31.2)	132 MD (79.0)	10.5 / 13.5
8	FMAS - 100	10.0 (41.7)	132 LC (80.0)	15 / 17
9	FMAS - 125	12.5 (52.1)	160 SC (79.5)	17 / 22
10	FMAS - 150	15.0 (62.5)	160 MA (80.0)	22 / 28
11	FMAS - 200	20.0 (83.3)	200 SE (81.0)	30 / 40
<b>3 Phase, 415 Volts, 50Hz, 4 Pole</b>				
1	FMAT - 50	5.0 (7.0)	132 MR (80.0)	7.5 / 8.5
2	FMAT - 65	6.5 (9.0)	132 MR (81.0)	10 / 10.5
3	FMAT - 75	7.0 (10.4)	132 MA (82.5)	10 / 12.5
4	FMAT - 100	10.0 (13.9)	132 MC (83.8)	13.5 / 17
5	FMAT - 125	12.5 (17.4)	132 MD (84.0)	17 / 20
6	FMAT - 150	15.0 (20.8)	132 LC (85.0)	20 / 25
7	FMAT - 200	20.0 (27.8)	160 SC (85.0)	28 / 32.5
8	FMAT - 250	25.0 (34.7)	160 MA (86.0)	32.5 / 40
9	FMAT - 300	30.0 (41.7)	160 MA (87.0)	37.5 / 45
10	FMAT - 325	32.5 (45.2)	160 MB (87.5)	40 / 50
11	FMAT - 350	35.0 (48.6)	160 MB (88.0)	45 / 55
12	FMAT - 400	40.0 (55.6)	200 SE (88.0)	50 / 60
13	FMAT - 400 -160	40.0 (55.6)	160 MB (88.0)	50 / 60
14	FMAT - 450	45.0 (62.6)	200 SB (89.0)	55 / 70
15	FMAT - 500	50.0 (69.5)	200 SB (88.1)	60 / 75
16	FMAT - 550	55.0 (76.5)	200 SD (89.0)	75 / 95
17	FMAT - 630	63.0 (87.6)	200 SD (89.2)	90 / 110
18	FMAT - 750	75.0 (104.3)	200 MD (90.0)	100 / 125
19	FMAT - 825	82.5 (114.7)	200 MD (90.3)	120 / 150

As the design and manufacture of "doctor" AC Generators are subject to constant development, the product supplied may differ in some details of the specification given.

#### Note :

- Efficiency @ full load listed above are subject to the tolerance as per applicable standards.
- Brush/Slipring type - A2S AC alternators with different voltages (up to 300V in 1Ø & 600V in 3Ø) Can be made available on request.
- All the above AC alternator models are made to aluminium die cast frame & are self excited, self ventilated, screen protected drip proof with enclosure confirming to protection IP23, horizontal foot mounted (B3) & temperature rise limited to class 'H' limits.
- All the above AC alternator models are suitable for running under ambient temperature less than 40° C & altitude less than 1000 mtrs.

#### Operating in different environments :

- If the ambient temperature exceeds 40° C, the derating factor to be incorporated is 4% for every 5° C increase.
- If the altitude is higher than 1000 mtrs. above sea level, it is necessary to derate by a factor of 4% for every 500 mtrs.

#### Note :

- AC alternators can be used for belt driven application also.
- A like, AC alternators can be used with slow speed engines & tractors.

#### Applications :

- Continuous and stand-by power for telecom, Defense and railway sectors, Airports.
- It can also be installed at places like Petrol pumps, Hospitals, Hotels & restaurants, Residential and Commercial complexes, Super markets, Banks, Construction sites, Cold storage, Rice mills, Farm houses, Agriculture, Industries, Marine etc.