



Rating @ 0.8 PF		Prime rating	Stand-by rating
Voltage ^{*1}	Freq. ^{*2}	RM45 ^{*3}	RM50S ^{*4}
400 V	50 Hz	45.0 KVA	50.0 KVA
480 V	60 Hz	55.1 KVA	60.3 KVA

RM45 - RM50 S

RM 45 - RM50S SB issue B2012

The above ratings represent the generating set capability guaranteed within $\pm 3\%$ at the reference conditions equivalent to those specified in ISO 8528/1, ISO 3046/1 and BS 5514/1

NOTES

- 1 - The applicable voltage is 380V to 415V for 50Hz applications and 380V to 480V for 60Hz applications.
- 2 - This generating set is of switchable speed of 1500rpm/1800 rpm.
- 3 - RM45 is the prime power rating of the generating set, where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation.
- 4 - RM50S is a standby power rating of the generating set, where a variable load limited to an annual usage up to 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted.

The above performance data are valid as per the following specs:

- Diesel Fuel is according to BS2869 Class A2 or equivalent.
- Lubricating oil is according to API CH4 (15W/40).
- The coolant should be 50% antifreeze and 50% fresh water.

Engine Technical Data

Model	Perkins 1103A-33TG1	
Cylinders	3; vertical in-line	
Aspiration	Naturally aspirated	
Combustion	Direct injection	
Cooling System	Water cooled	
Displacement	3.30 L	
Oil consumption	0.15 % of fuel consumption	
Lube oil capacity	8.30 L Max	
Coolant capacity	10.20 L	
Governor	Mechanical	
Emissions regulations	TA-Luft(1986)	
Speed	1500 rpm	1800 rpm
Fuel Consumption PT 45	10.7 L/H	12.9 L/H
Fuel Consumption PT50S	12.0 L/H	14.3 L/H
Radiator Cooling Air Flow	53.0 m ³ /min	70.0 m ³ /min
Max Exhaust Gas Flow	7.0 m ³ /min	8.8 m ³ /min

Alternator Technical Data

Model	Leroy Somer LSA 42.3M7		
Regulation	$\pm 0.5\%$		
International protection	IP23		
Insulation class	H		
Terminals	12		
Frequency	50 Hz	60 Hz	
Coolant Air Flow	0.10 m ³ /s	0.13 m ³ /s	

Shipping Data

Length	Width	Height	Weight
1700 mm	770 mm	1250 mm	810 kg

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