

DME-245

LEROY SOMER

Perkins
Diesel Power

DSE

DME powers one of the biggest
Commercial Infrastructures
in the Middle-East

Ratings @ 0.8 PF

Voltage	Frequency	Prime Rating	Stand-by Rating
230/400 V	50 Hz	200.0 kVA	220 kVA
230/400 V	60 Hz	245kVA	269 kVA

The above ratings represent the generating set capability guaranteed within $\pm 3\%$ at the reference conditions equivalent to those specified in ISO 8528/1 standard.

The applicable voltage range is 380V to 415V for 50Hz applications. For other voltages, please consult factory.



Genset Details

Controller	DSE 7110, 702 uk made
Base Frame	Heavy-duty fabricated steel
Circuit Breaker	3 Pole MCCB - schneider or ABB 300 A
Engine Speed	1500 rpm - 1800 rpm
Fuel Tank Capacity	800L
Air Inlet	Mounted Air filter
Fuel System	Rotary type pump
Fuel Filter	Ecoplus fuel filter
Lubrication System	Wet steel sump with filler and dipstick
Cooling System	Thermostatically-controlled system with gear driven circulation pump & pusher fan Mounted radiator, piping and guards
Electrical equipment	12 V starter, 12 V 15 A Alternator 12 V shut-off solenoid energised to run
Flywheel / Housing	Housing SAE J1620 SIZE 355.6(14in)
Mountings	Front engine mounting brackets

Dimensions

Closed Type	
Length	390cm
Width	140 cm
Height	210cm
Weight	2500 kg
Open Type	
Length	290 cm
Width	100 cm
Height	200cm
Weight	2250kg

Engine Technical Data

Make & Model	PERKINS 1506A-E88TAG1
Number of Cylinders	6 vertical In-line
Bore and Stroke	112 x 149 mm 4.5 x 5.8 in
Displacement	7.01 Liters 428in ³
Aspiration	Turbocharged
Cycle	4 Stroke
Combustion System	Direct Injection
Compression Ratio	16.1
Rotation	Anti-clockwise, viewed on flywheel
Total Lubrication Capacity	41 Liters 9.01 gal
Cooling System	Water-cooled
Total Coolant Capacity	29.6 Liters 7.8 gal
Governor	Mechanical

Prime These ratings are applicable for supplying continuous electrical power (at variable load). There is no annual hours limitation and this genset can supply 10% overload for 1 hour in 12 hours

Standby These ratings are applicable for supplying continuous electrical power (at variable load) in the case of emergency power supply. No overload is permitted on these ratings. The Alternator on this model is peak continuous rates (as defined in ISO 8528-3)

Exhaust System

Max. Back Pr. kPa	6.0
Exhaust Gas Flow m ³ /min (cfm)	Prime 37.5(1324.3) Standby 40.4(1426.7)
Exhaust Gas Temp. C (F)	Prime 537(998.6) Standby 558(1036.4)



The complete Generating Set is type-tested according to ISO 8528-8 Standard.



The control panel is certified by an ISO 17025 accredited laboratory to have P55 according to IEC Quality 60355

Make & Model	LeroySommer TAL046 B
Frequency / Poles	50 ,60 Hz / 4
Ingress Protection	IP 23
Insulation Class	H
Terminals (optional)	6 / 12
Excitation system	Shunt
Winding pitch	2/3
AVR Model	R150
Overspeed	2250 RPM
Voltage regulation	$\pm 1\%$
Coolant Air Flow	0.06m ³ /s

Standard Reference Conditions Note:

Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to B52869: 1998, Class A

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