

DME-500

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	455.0 kVA	500 kVA
220/380 V	60 Hz	500 kVA	563 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
Base Frame	Heavy-duty fabricated steel
Circuit Breaker	3 Pole MCCB SCHNEIDER OR ABB - 800A
Engine Speed	1500 rpm - 1800 rpm
Fuel Tank Capacity	700L
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	24 V starter, 24 V 70A Alternator Glow plug cold start aid 12 V shut-off solenoid energised to run
Flywheel / Housing	SAE J620 Size (10/11 ^{1/2} in) Housing SAE 3
Mountings	Front engine mounting brackets

Dimensions

Closed Type	
Length	450cm
Width	160 cm
Height	213cm
Weight	3793kg

Open Type	
Length	390cm
Width	110cm
Height	213cm
Weight	3314 kg

Engine Technical Data

Make & Model	Perkins 2506A-E15TAG1
Number of Cylinders	6 vertical In-line
Bore and Stroke	137x 171mm
Displacement	15.2 Liters
Aspiration	Turbocharged
Cycle	4 Stroke
Combustion System	Direct Injection
Compression Ratio	16.1:1
Rotation	Anti-clockwise, viewed on flywheel
Total Lubrication Capacity	62 Liters
Cooling System	Water-cooled
Total Coolant Capacity	58 Liters
Governor	ELECTRICAL

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 94 (3320)
	Standby 98(3461)
Exhaust Gas Temp. C (F)	Prime 550 (1022)
	Standby 550(1022)



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 60335 Quality ISO 9001

Make & Model	Leroysover TAL047B
Frequency / Poles	60 Hz / 4
Ingress Protection	IP 23
Insulation Class	H
Terminals (optional)	6 / 12
Excitation system	Shunt
Winding pitch	2/3
AVR Model	R250,150
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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Quality ISO 9001