

DME-60

LERROY 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 | 60 kVA | 66 kVA |
| 220/380 V | 60 Hz | 68.1 kVA | 75.1 kVA |

The above ratings represent the generating set capability guaranteed within ±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 | DSE702 |
| Base Frame | Heavy-duty fabricated steel |
| Circuit Breaker | 3 Pole MCCB LSIS Korea - 80 A |
| Engine Speed | 1500 rpm - 1800 rpm |
| Fuel Tank Capacity | 270 L |
| 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 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 | 227 cm |
| Width | 105 cm |
| Height | 133 cm |
| Weight | 850 kg |

| Open Type | |
|-----------|--------|
| Length | 170 cm |
| Width | 80 cm |
| Height | 100 cm |
| Weight | 765 kg |

Engine Technical Data

| | |
|----------------------------|------------------------------------|
| Make & Model | Perkins 1103A-33TG2 |
| Number of Cylinders | 3 vertical in-line |
| Bore and Stroke | 105 x 127 mm 4.1 x 5 in |
| Displacement | 4.41 Liters 268.5 in 3 |
| Aspiration | Turbocharged |
| Cycle | 4 Stroke |
| Combustion System | Direct Injection |
| Compression Ratio | 18.2:1 |
| Rotation | Anti-clockwise, viewed on flywheel |
| Total Lubrication Capacity | 8.0 Liters 2.11 gal |
| Cooling System | Water-cooled |
| Total Coolant Capacity | 12.6 Liters 3.43 gal |
| Governor | Mechanical |

Alternator Technical Data

| | |
|----------------------|-----------------------|
| Make & Model | Leroy Somer TAL042 H |
| Frequency / Poles | 50 Hz / 4 |
| Ingress Protection | IP 23 |
| Insulation Class | H |
| Terminals (optional) | 6 / 12 |
| Excitation system | Shunt |
| Winding pitch | 2/3 |
| AVR Model | R120 |
| Overspeed | 2250 RPM |
| Voltage regulation | ± 1 % |
| Coolant Air Flow | 0.06m ³ /s |

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 | 18.0 |
| Exhaust Gas Flow m ³ /min (cfm) | Prime 15.2 (529.72) |
| | Standby 16.3 (575.63) |
| Exhaust Gas Temp. C (F) | Prime 514 (1031) |
| | Standby 543 (1076) |



-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 IP55 according to IEC 60355 Quality 60 9001

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 BS2869: 1998, Class A