DME-114

LEROY SOMER

Berkins
Diesel Power

DSE

Ratings @ 0.8 PF

Voltage Frequency

Prime Rating | Stand-by Rating

230/400 V

50 Hz 100.0 kVA

111.9 kVA

220/380 V 60 Hz

114.4 kVA 126.5 kVA

he 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	DSE 4510 OR 702			
Base Frame	Heavy-duty fabricated steel			
Circuit Breaker	3 Pole MCCBSchneider or ABB 163 A			
Engine Speed	1500 rpm - 1800 rpm			
Fuel Tank Capacity	500 L			
Air Inlet	Mounted Air filter			
Fuel System	Rotary type pump			
Fuel Filter	Ecoplus fuel filter			
Lubrication System	Wet steel sump with filler and dipstic			
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 3620 Size (10/11 ^{1/2} in) Housing SAE 3			
Mountings	Front engine mounting brackets			

Dimensions

Closed Type		
Length	270 cm	
Width	105 cm	
Height	145 cm	
Weight	1100 kg	

Open Type				
Length	205 cm			
Width	80 cm			
Height	130 cm			
Weight	990 kg			

Engine Technical Data

Make & Model	Perkins 1104C-44TAG2		
Number of Cylinders	4 vertical in-line		
Bore and Stroke	105 x 127 mm 4.1 x 5 ln		
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 Uters 2.11 gal		
Cooling System	Water-cooled		
Total Coolant Capacity	12.6 Liters 3.43 gal		
Governor	Mechanical		

Prime

Standby

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

in 12 nour

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 m3/min (cfm)	Prime Standby	15.2 (529.72) 16.3 (575.63)	
Exhaust Gas Temp.	Prime Standby	514 (1031) 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 IPSS according to IEC 0x807 60 900

Make & Model Leroysomer TAL044 D Frequency / Poles 60 Hz / 4 Ingress Protection IP 23 Insulation Class Terminals (optional) 6/12 **Excitation system** Shunt Winding pitch 2/3 AVR Model R120 Overspeed 2250 RPM Voltage regulation ±1% Coolant Air Flow

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.