



PM9C

Perkins range

FEATURING

Reliable power from your world leading manufacturer.

Every generator set is subjected to a comprehensive test program which includes full load testing and the checking and proving of all control and safety shut-down functions.

Delivered in a completed package that is ready to be filled with fuel and connected to your power cable.

Fully engineered with a range of options and accessories: electrical, sound attenuated enclosures and roadworthy trailers.



Generator picture may include optional accessories

3 PHASE OUTPUTS					
GENERATOR SET MODEL	RATING	50HZ		60HZ	
		KVA	KW	KVA	KW
PM-9C	PRIME	9	7.2	11	9
	STAND-BY	10	8	12.5	10

Ratings at 0.8 pf - Generator designed to operate in ambient temperatures up to 52 °C

Standard Voltages 380 – 415 Volts 3 Phase 50HZ

RATING DEFINATIONS:

PRIME POWER

These ratings are applicable for supplying continuous power (at variable load) in Lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

STANDBY POWER

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these rating. When used at standby Rating the alternator will be peak continuous rated (according to ISO3046)

TECHNICAL DATA (50HZ)

Engine model:	403D-11G	Cooling system:	water
Engine manufacturer:	Perkins	Total coolant capacity:	(liters) 5.2
Emissions statement	Stage II & Tier 4	Total lubrication system capacity:	(liters) 4.9
Number of cylinders:	3	Engine rotation (viewed facing flywheel):	Anti-clockwise
Cylinder arrangement	Vertical in-line	Engine speed:	RPM 1500
Aspiration:	Naturally aspirated	Output rated(prime) power:	KW 8.4
Combustion system	Indirect injection	Fuel consumption at: 50% load	L/h 1.7
Compression ratio	23:1	75% load:	L/h 2.3
Bore/stroke:	mm. 77/81	100% load:	L/h 3.0
Displacement:	(liters) 1.131	Specific lube oil consumption:	Max 0.8% of fuel Consumption

Note: Standard reference condition for ratings are 27 °C air Inlet temp, 1000 m bar and 30% relative humidity.

Fuel consumption data at various loads, diesel fuel with a specific gravity of 0.85kg/L

STANDARD SPECIFICATION PM9C

1. ENGINE

Perkins heavy duty diesel engine.

1.1 Governor

Mechanical, compliance with ISO8528, Class G2.

2. COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine in ambient temperatures up to 52° C.



3. FILTRATION SYSTEM

Cartridge type air filter with security element. Cartridge fuel filter and full lube oil filter. All filters have replaceable elements.

4. EXHAUST SYSTEM

Heavy-duty industrial silencer.

5. ELECTRICAL SYSTEM

12 Volt system with battery charging alternator, Starter motor, High capacity maintenance free lead acid battery, battery rack mounted on the generating set base frame, and heavy duty interconnecting cables with terminations.



6. ALTERNATOR Screen protected and drip-proof, self-exciting, self-regulating brush-less alternator. Four poles, STAR winding connection, suitable for tropical, humid and saline climates. H class insulation.

7. AUTOMATIC VOLTAGE REGULATOR

Static electronic design voltage regulator. Steady voltage precision within + 1 % from no load to full load including cold and hot variations, at any Power factor between 0.8 and unity.

8. MOTOR STARTING

An overload capacity equivalent to between 160% to 300% (depending on alternator frame size) of full load impedance at zero power factor can be sustained for 10 seconds.

9. MOUNTING ARRANGEMENT

9.1 Base Frame

The complete generating set is mounted on heavy duty steel fabricated base frame Which is anti rust coated.

9.2 Coupling

Engine and alternator are directly coupled by means of SAE flange so there is no possibility of misalignment after prolong use. The engine fly wheel is flexibly coupled to the alternator rotor.

9.3 Anti Vibration Mounting Pads

Anti vibration pads are fitted between engine-alternator base frame ensuring complete vibration isolation of rotating assemblies.

10. FUEL SYSTEM

75 liters Fuel Tank is provided on the base frame. The Fuel tank is easy to clean and is equipped with visual fuel level indicator.

11. DIMENSIONS

Length	1750	mm
Width	740	mm
Height	1110	mm
Weight	550	Kg

12. CONTROL PANEL

The manual starting control panel (DSE3110) has been designed and built to combine all the instruments control and the warning lights for engine and alternator. The sheet steel made panel is carefully painted for tropical climates and is designed for a dusty environment. Includes following equipment Ammeter with selector switch – water temperature meter – oil pressure meter- moulded case three pole circuit breaker with thermal and magnetic release - automatic shut down in case of HWT, LOP and over speed - starting key and stop push button - acoustical signal - warning light for high cooling water temperature, low oil pressure, battery charging - hours meter



Automatic starting control board versions are available as option.

13. DOCUMENTATION

A full set of operation and maintenance manual are provided.

14. FACTORY TESTS

Generating set is subject to a strict load test before delivery. A test certificate can be provided as optional.

15. QUALITY STANDARDS

Generating set meets the following standards ISO 8528, IEC 34.1, CEI 2.3, VDE 0530, BS 4999-5000, NF51-100. Perkins is fully accredited ISO 9001 company.

16. WARRANTY

Generating set is guaranteed for a period of 12 months from date of commissioning or 18 months from date of shipment which ever occurs earlier.

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