





Image for illustrative purposes only ..

GENERATING SET MODEL (PM550)					
Output Ratings	Prime	Standby			
380-415 V, 3 ph, 50 Hz, 1500 rpm	500 KVA	550 KVA			
	400 KW	440 KW			

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	Perkins			
Engine Model	2506A-E15TAG2			
Governing Type	Electronic			
Number of Cylinders		6		
Cylinder Arrangement		Vertica	al in line	
Bore and Stroke mm		137 x 171		
Displacement / Cubic Capacity litres	15.2			
Induction System	Turbocharged and air to air charge cooled			
Cycle	4 stroke			
Combustion System	Direct Injection			
Compression Ratio	16:1			
Rotation	Anti-clockwise, viewed on flywheel			
Cooling System	Water - cooled			
Frequency and Engine Speed	50Hz & 1500rpm 60Hz & 1800rp		& 1800rpm	
	Prime	Standby	Prime	Standby
Gross Engine Power kW (hp)	451 (605)	495 (664)	458 (615)	514 (689)
Fuel Consumption @ 50% load L/hr	53	-	53	-
@ 75% load L/hr	76	-	78	-
@ 100% load L/hr	100	111	102	116
Total Lubrication System Capacity litres	62	62	62	62
Total Coolant Capacity litres	58	58	58	58
Boost Pressure Ratio	3.40	3.60	3.00	3.25
Exhaust Temperature: °C	n/a	550	n/a	550
Radiator Cooling Air Flow (Min): m ³ /sec	11	11	13.7	13.7
Combustion Air Flow: m ³ /min	35.8	36.6	34.3	38
Exhaust Gas Flow: m ³ /min	94	98	96	105.3
Fuel Tank Capacity: litres	705	705	705	705

ALTERNATOR DATA	
Make	Stamford
Model	HCI 534D/544D
No. of bearings	1
Insulation class	Н
Total Harmonic Content	<2%
Wires	12
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n° 6)
AVR Model	R250
Overspeed	2250 mn ⁻¹
Voltage Regulation (steady)	± 0.5%
Short Circuit Capacity	-

CONTROL PANEL	
Make	Deep Sea
Model	7120

The **DSE7120** is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

- Metering and Alarm indications:
- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
 Generator current
- Engine oil pressure
- Engine on pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- · Loss of magnetic pick-up signal Optional
- Low DC voltage
- CAN diagnostics and CAN fail/error

STANDARD SPECIFICATIONS

PM550

1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

2. ENGINE FILTRATION SYSTEM

Cartridge type dry air filter.

Two Cartridge type fuel filters.

Full flow lube oil filter.

All filters have replaceable elements.

3. COOLINGRADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level 15 (dB) Maximum allowable back pressure 6.8 (kPa)

55..CIRCUTBREAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

6.6.FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

STANDARD REFERENCE CONDITIONS

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

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 ratings.

DIMENSIONS AND WEIGHT						
Length cm	Width cm	Height cm	Weight* kg (wet)			
336	117	203	3810			

7. ALTERNATOR

7.1 INSULATION SYSTEM

The insulation system is Class H.
All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
Heavy coat of antitracking varnishadditional

protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR) The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 0.5\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

7.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when AREP or PMG option is fitted.

813..MOUNTINGWARRANTYARRANGEMENT

8.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

8.2 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

8.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

913.FACTORYWARRANTYTEST

The Generating set is load tested before dispatch
All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

. I.J. EQUIL MENTWARNANT FINISH

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

TIT3. DOCUMENTATIONWARRANT

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

123.2..QUALITYWARRANTYSTANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

1313.. WARRANTY

All of the Generating Sets

Warranty policy for a period of 24 months. Warranty of the equipment is in line with manufacturers warranty terms & conditions. (check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.



