

PZ550 3 PHASE/1500RPM



Perkins

Image for illustrative purposes only..

GENERATING SET MODEL (PZ550)			
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		Elect	ronic	
Number of Cylinders		6	6	
Cylinder Arrangement		Vertica	l in line	
Bore and Stroke mm		137 >	x 171	
Displacement / Cubic Capacity litres		15	5.2	
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 & 1800rpm		1 800rpm	
	Prime Standby Prime Stand		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	500	550	500	550
200000000000000000000000000000000000000	500 476.4	550 476.4	500 476.4	550 476.4
Exhaust Temperature: °C				
Exhaust Temperature: °C Radiator Cooling Air Flow (Min): m³/min	476.4	476.4	476.4	476.4





Make	Stamford/ Leroy Somer		
Model	HCI 544C	HCI 544C / TAL047C	
No. of bearings 1			
Insulation class			
Total Harn	nonic Content	<2%	
Wires		12	
Ingress Pr	otection	IP23	
Excitation System		SELF	
Winding P	itch	2/3 (n° 6)	
		· · ·	
Overspeed		2250 mn ⁻¹	
Voltage Re	gulation (steady)	± 1%	
Short Circuit Capacity		-	

CONTROL PANEL	
Make	Deep Sea
Model	7000 SERIES

The **DSE 7000** Series 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 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

All windings are impregnated in either a triple dip

thermosetting liquid, oil and acid resisting polyester

varnish or vacuum pressure impregnated with a

· Heavy coat of antitracking varnish additional

protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR) The fully sealed Automatic Voltage Regulator

maintains the Voltage Regulation at $\pm 1\%$. Nominal adjustment by means of a trim pot incorporated on

An overload capacity equivalent to 300% of the Full

The complete Generating Set is mounted as a whole

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

Anti-Vibration pads are affixed between the Engine /

Alternator feet and the Baseframe thus ensuring

complete vibration isolation of the rotating assembly.

The Fan & Fan Drive along with the Battery Charging

Alternator are Safety Guard protected for personnel

Load impedance at zero Power Factor can be

sustained for 10 seconds, when AREP or PMG

8. MOUNTING ARRANGEMENT

on a heavy duty fabricated steel Baseframe.

flexibly coupled to the Alternator rotor.

8.3 ANTI-VIBRATION MOUNTING PADS

7. ALTERNATOR

7.1 INSULATION SYSTEM

special polyester resin.

7.3 MOTOR STARTING

option is fitted.

8.1 BASE FRAME

8.2 COUPLING

8.4 SAFETY GUARDS

protection.

the AVR.

The insulation system is Class H.



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. COOLING RADIATOR

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 Silenc	duty Industrial Exhaust S	ilencer
--------------------------------------	---------------------------	---------

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

5. CIRCUT BREAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

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

Dealer contact details:



Engineering & Services

1P, 1KM, Defence Off Raiwind Road,Bhubtian Chowk, Lahore.

www.powerzone.com.pk info@powerzone.com.pk UAN: (042) 111-111-087

9. FACTORY TEST

 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.

10. EQUIPMENT FINISHING

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

11. DOCUMENTATION

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

12. QUALITY STANDARDS

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

13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 12 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.

> Office# 7&8, 1st Floor, Block 76-E, Hill View Plaza, Jinnah Avenue, Sector G-7 & F-7, Blue Area, Islamabad.

UAN: (051) 111-111-087