

Mechanical Power driven by **Perkins**°

- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS
- 18001:2007.
- Manufactured in accordance to 8528-1 to 12.
- Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.
- Breaker complies with IEC 60947-2.











PI 563P





MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 563P	1800 / 60	480 / 277	500 kVA / 400kWe	563 kVA / 450.4 kWe

ENGINE SPECIFICATION	ie –	FUEL SYSTEM		
Rated Output (PRP) (1)	Fuel Filter: Replaceable 'Ecoplus' fuel filter elements with			
		58 kW _m primary filter/water separator		
Rated Output (ESP) (2)	514 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Model	Perkins 2506A-E15TAG1	Fuel Consumption S	-	116 L/hr (30.64 US gal/hr)
No. of Cylinders	6 Vertical In-line	Fuel Consumption 10	0% PRP	102 L/hr (26.94 US gal/hr)
Cycle	4 Strokes	Fuel Consumption 75	% PRP	78 L/hr (20.60 US gal/hr)
Aspiration	Turbocharged	Fuel Consumption 50 th	% PRP	52 L/hr (13.73 US gal/hr)
Cooling Method	Water	EXHAUST SYSTEM		
Governing Type	Electrical	Muffler Type	Muffler Type	
Governing Class	G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure	
Compression Ratio	16:1	Exhaust Gas Flow (PF	Exhaust Gas Flow (PRP/ESP)	
Displacement	15.2 L (927.in³)	Exhaust Gas Tempe	rature	550°C
BorexStroke	137x171 mm	ALTERNATOR SPECIFICATIONS		ONS
Battery and Charger Alterna	tor 24 VDC , 70 Amp	Rated Output (Prime	Rated Output (Prime) (1)	
AIR SYSTEM		Rated Output (Stand	Rated Output (Standby) (2)	
Air Filter Type	Dry Element	Alternator Make & M	Alternator Make & Model	
Combustion Air Flow (PRP) 34.3 m³/min	Number of Poles	Number of Poles	
Combustion Air Flow (ESP	38 m³/min	Number of Winding I	Number of Winding Leads	
Radiator Air Flow	866 m³/min	Type of Bearing		Single
COOLING SYSTEM		Insulation Class / Ten	Insulation Class / Temp Rise	
Total Coolant Capacity (L)	58 L (15.3 US gal)	Efficiency @ Rated \	Efficiency @ Rated Voltage	
Water Pump Type	Centrifugal Eng-Driven	Ingress Protection R	Ingress Protection Rating	
Radiator Fan Load	15.5 kW	Excitation System	Excitation System	
Heat Radiation to Room (PR	P) 30.5 kW	AVR Model	Stamford	- AS440
Heat Radiation to Room (ES	P) 32.5 kW	ALTERNATOR OPE	ALTERNATOR OPERATING D	
LUBRICATION SYSTEM		Overspeed	Overspeed	
Oil Filter Type	flow replaceable 'Ecoplus' filter	Voltage Regulation	Voltage Regulation	
Total Oil Capacity	62 L (16.4 US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan	53 L (14 US gal)	Radio Interface	EN 61000	-6-2 & EN 61000-6-4
Oil Type API	CH4/CI4; SAE 15W-40	Cooling Air Flow	Cooling Air Flow	

⁽¹⁾ PRIME POWER RATING (PRP): PRP is defined as the maximum power which a Generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year. The permissible average power output over 24 hours shall not exceed 70% of PRP unless otherwise agreed by RIC engine manufacturer. An overload capability of 10% of 100% of the prime rated electrical power is permitted for emergency use for a period of 1 hour within 12 hours of operation

⁽²⁾ EMERGENCY STANDBY POWER RATING (ESP): ESP is defined as the maximum power available during a variable electrical power sequence, under the stated operation condition, for which a generating set is capable of delivering power in the event of a utility power outage or under test condition for up to 200 Hours of operation per year. The permissible average output over 24 hour of operation shall not exceed 70 % of the ESP power rating noting that no over load is permitted.



PI 563P

Industrial Generating Set



CONTROLLER SPECIFICATIONS						
Controller Make & N	DeepSea 6120					
Operation Mode	MRS / AMF (optional)					
Display	Display Graphic Back					
Ingress Protection F	IP65					
Binary Inputs/Outpu	6 / 4					
Analog Inputs		4				
Measurement Vac, A, F		z, kVA, kW, Vdc				
Event Log	Alarms log, Hrs log					
Communication	USB					

ENCLOSURE SPECIFICATIONS				
Enclosure Type	Acoustic & Weather Proof			
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP23			
Lifting ISO S		indard Lifting		
Emergency External		Emergency Push Button		
Canopy RAL Color		RAL 2000		
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	78 dB(A)			

GENSET DIMENSIONS & WEIGHT Length Width Height Fuel Tank **GENSET TYPE** Dry Weight (kg) Wet Weight (kg) (mm) (mm) (mm) Capacity (L) **OPEN** 3500 1250 2285 690 3403 3500 1030 4490 4600 **CLOSE** 5205 1624 2605

STANDARD MECHANICAL FEATURES

Genset design provides a low noise level with an optimized performance of the ventilation and exhaust systems at 50 °C ambient temperature.

Robust structure design of Enclosure and Baseframe.

Heavy duty lifting lugs.

Multi doors for easy access & maintenance.

Ingress Protection Rating according to BS EN 60529.

Heavy Duty Baseframe with built-in tank & forklift pockets.

Industrial Grade Muffler with rain cap.

STANDARD ELECTRICAL FEATURES

An advance Control system is designed to provide a comprehensive protection and to monitor the parameters of generating set.

MCCB power circuit breaker.

Battery with charging alternator, cables, and tray.

Sealed harness & high resistant electrical connections.

Fast and accurate protection response.

Generating Set remote start function.

Numeric display with LED. Various languages capable.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Residential / Critical grade muffler

Fuel Filter / Water separator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial, Residential, Telecom, Defense, Mining, Agriculture



Address: PO Box 4083, Dammam 34331, Kingdom of Saudi Arabi Tel: +966 13 8167179