

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.





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# PI 563P

**Industrial Generating Set** 

POWERED BY 🍪 Perkins

MODEL rpm / Hz   PI 563P 1800 / 60		VOLTAGE	PRIME <sup>(1)</sup> 500 kVA / 400kWe		STANDBY <sup>(2)</sup>
		480 / 277			563 kVA / 450.4 kWe
ENGINE SPECIF	ICATIONS		FUEL SYSTEM		
Rated Output (PRP) <sup>(1)</sup>		458 kW <sub>m</sub>	Fuel Filter: Replaceable 'Ecoplus primary filter/water separator		s' fuel filter elements wit
Rated Output (ES	SP) <sup>(2)</sup>	514 kWm	Recommended Fuel		Class A2 Diesel
Engine Make & M	lodel	Perkins 2506A-E15TAG2	Fuel Consumption Standby		116 L/hr (30.64 US gal/h
No. of Cylinders		6 Vertical In-line	Fuel Consumption 100% PRP		102 L/hr (26.94 US gal/h
Cycle		4 Strokes	Fuel Consumption 75% PRP		78 L/hr (20.60 US gal/hr)
Aspiration		Turbocharged	Fuel Consumption 50% PRP		53 L/hr (14 US gal/hr)
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Electrical	Muffler Type		Industrial Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		6.8 kPa
Compression Ratio		16:1	Exhaust Gas Flow (PRP/ESP)		96 / 105.3 m <sup>3</sup> /min
Displacement		15.2 L (927.in <sup>3</sup> )	Exhaust Gas Temperature		550ºC
BorexStroke		137x171 mm	ALTERNATOR SPECIFICATIONS		TIONS
Battery and Charger Alternator		24 VDC , 70 Amp	Rated Output (Prime) (1)		594 kVA
AIR SYSTEM			Rated Output (Standby) (2)		644 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford HCI544D S5L1D-C4
Combustion Air F	low (PRP)	34.3 m <sup>3</sup> /min	Number of Poles		4
Combustion Air F	low (ESP)	38 m³/min	Number of Winding Leads		12
Radiator Air Flow		866 m³/min	Type of Bearing		Single
COOLING SYST	EM		Insulation Class / Temp Rise		H/H
Total Coolant Ca	pacity (L)	58 L (15.3 US gal)	Efficiency @ Rated Voltage		94.4%
Water Pump Typ	е	Centrifugal Eng-Driven	Ingress Protection Rating		IP 23
Radiator Fan Load		15.5 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		30.5 kW	AVR Model Stamford		d - AS440
Heat Radiation to Room (ESP)		32.5 kW	ALTERNATOR OPERATING		<b>DATA</b>
			Overspeed		2250 r.p.m
Oil Filter Type		eplaceable 'Ecoplus' filter	Voltage Regulation		±1%
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 6100		00-6-2 & EN 61000-6-4
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow		1.312 m <sup>3</sup> /sec

<sup>(1)</sup> **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

<sup>(2)</sup> **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

POWERED BY **B Perkins** 

CONTROLLER SPECIFICATIONS					
Controller Make & M	DeepSea 6120				
Operation Mode	MRS / AMF (optional)				
Display	Graphic Back-lit LCD (128x64) pixles				
Ingress Protection F	IP65				
Binary Inputs/Outpu	6 / 4				
Analog Inputs		4			
Measurement	Vac, A, Hz, kVA, kW, Vdc				
Event Log Alarms lo		g, Hrs log			
Communication	USB				

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

GENSET DIMENSIONS & WEIGHT							
GENSE	ГТҮРЕ	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN		3500	1250	2180	690	3536	3600
CLOSE		5205	1624	2605	1030	4720	4850

## 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.

#### **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

#### 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.



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