

Mechancial 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.
- O Breaker complise with IEC 60947-2.



PRECISION INDUSTRIES

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PI 17.4P



Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME ⁽¹)	STANDBY ⁽²⁾
PI17.4P	1800 / 60	480 / 277	15.8 kVA / 12.6	kWe	17.4 kVA / 13.9 kWe
	FICATIONS		FUEL SYSTEM		
Rated Output (PRP) ⁽¹⁾		14.7 kWm	Fuel Filter: Split element fuel filter		r
Rated Output (E	SP) ⁽²⁾	16.2 kWm	Recommended Fue	Recommended Fuel	
Engine Make & Model		Perkins 403D-15G	Fuel Consumption Standby		7.5 L/hr
No. of Cylinders		3 Vertical In-line	Fuel Consumption 100% PRP		6.8 L/hr
Cycle		4 Strokes	Fuel Consumption 75% PRP		5.5 L/hr
Aspiration		Naturally Aspirated	Fuel Consumption 50% PRP		4.4 L/hr
Cooling Method		Water	EXHAUST SYSTEM		
Governing Type		Mechanical	Muffler Type		Industrial Grade
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure	Max. Back Pressure	
Compression Ratio		22.5:1	Exhaust Gas Flow (P	Exhaust Gas Flow (PRP/ESP)	
Displacement		1.49 L (91.3in ³)	Exhaust Gas Temperature		490 [°] C
BorexStroke (mm/in)		84x90 / 3.3x3.5	ALTERNATOR SPECIFICATIONS		IONS
Battery and Charg	ger Alternator	12 VDC ,65 Amp	Rated Output (Prime	Rated Output (Prime) ⁽¹⁾	
AIR SYSTEM			Rated Output (Stand	Rated Output (Standby) ⁽²⁾	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford S0L1-P1
Combustion Air Flow (PRP)		1.1 m ³ /min	Number of Poles	Number of Poles	
Combustion Air Flow (ESP)		1.1 m ³ /min	Number of Winding Leads		12
Radiator Air Flow		0.42 m³/sec	Type of Bearing	Type of Bearing	
COOLING SYSTEM			Insulation Class / Ter	Insulation Class / Temp Rise	
Total Coolant Capacity (L)		6.0L (1.6 US gal)	Efficiency @ Rated Voltage		82.60%
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection F	Ingress Protection Rating	
Radiator Fan Load		0.3 kW	Excitation System		Self Excited
Heat Radiation to Room (PRP)		3.2 kW	AVR Model	Stamford	- AS540
Heat Radiation to Room (ESP)		3.5 kW	ALTERNATOR OP	ERATING	DATA
			Overspeed		2250 r.p.m
Oil Filter Type	Spin	on full flow filter	Voltage Regulation		± 1.0 %
Total Oil Capacity		6.0L (1.6 US gal)	Waveform distortion		No load < 2.5%, Linear load < 5%
Oil Pan		4.5 L	Radio Interface Standard		EN61000-6-2:2001
Oil Type API CH4/		CI4; SAE 15W-40	Cooling Air Flow		0.07 m ³ /sec
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⁽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.







Industrial Generating Set

CONTROLLER SPECIFICATIONS						
Controller Make & M	DeepSea 4520					
Operation Mode	MRS / AMF (optional)					
Display	Graphic Back	raphic Back-lit LCD (128x64) pixles				
Ingress Protection F	IP65					
Binary Inputs/Output	4 / 4					
Analog Inputs	3					
Measurement	Vac, A, Hz, 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 F	IP23					
Lifting ISO Star		idard Lifting				
Emergency External E		mergency Push Button				
Canopy RAL Color	RAL 2000					
Baseframe RAL Co	RAL 9011					
Noise Pressure leve	68 dB(A)					

GENSET DIMENSIONS & WEIGHT Length Width Height Fuel Tank **GENSET TYPE** Wet Weight (kg) Dry Weight (kg) (mm) (mm) (mm) Capacity (L) OPEN 1700 780 1200 40 526 550 CLOSE 1900 810 1370 40 804 830

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.

Hevy 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 seperator Fuel Filter

Remote Annunciator

Application

Infrastructure, Industrial, Residential, Telecom, Defense, Mining, Aggriculture

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ISO



An advance Control system is designed to provide a comperhensive 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.

