



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 188P





MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 188P	1800 / 60	480 / 277	169 kVA / 135.2kWe	188 kVA / 150.4kWe

ENGINE SPECIFIC	ATIONS		FUEL SYSTEM		
Rated Output (PRP) (1)		155.4 kW _m	Fuel Filter: Ecoplus	Fuel Filter: Ecoplus fuel filter	
Rated Output (ESP) (2)		176 kW _m	Recommended Fue	Recommended Fuel	
Engine Make & Model		Perkins 1106A-70TAG2	Fuel Consumption S	Fuel Consumption Standby	
No. of Cylinders		6 Vertical In-line	Fuel Consumption 10	Fuel Consumption 100% PRP	
Cycle		4 Strokes	Fuel Consumption 75	Fuel Consumption 75% PRP	
Aspiration		Turbocharged Aftercooled	Fuel Consumption 50	Fuel Consumption 50% PRP	
Cooling Method		Liquid	EXHAUST SYSTEM		
Governing Type		Mechanical	Muffler Type	Muffler Type	
Governing Class	Governing Class		Max. Back Pressure	Max. Back Pressure	
Compression Ratio		16:1	Exhaust Gas Flow (F	Exhaust Gas Flow (PRP/ESP)	
Displacement		7 L (428.in³)	Exhaust Gas Temp	Exhaust Gas Temperature	
BorexStroke (mm/in)		105x135 / 4.1x 5.3	ALTERNATOR SP	ALTERNATOR SPECIFICATION	
Battery and Charger Alternator		12 VDC , 65 Amp	Rated Output (Prim	Rated Output (Prime) (1)	
AIR SYSTEM			Rated Output (Stan	dby) ⁽²⁾	218.8 kVA
Air Filter Type		Dry Element	Alternator Make & N	Alternator Make & Model	
Combustion Air Flow	v (PRP)	14.41 m³/min	Number of Poles	Number of Poles	
Combustion Air Flow (ESP)		14.97 m³/min	Number of Winding	Number of Winding Leads	
Radiator Air Flow		245.4 m³/min	Type of Bearing	Type of Bearing	
COOLING SYSTEM			Insulation Class / Te	Insulation Class / Temp Rise	
Total Coolant Capacity (L)		21L (5.5 US gal)	Efficiency @ Rated	Efficiency @ Rated Voltage	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection F	Ingress Protection Rating	
Radiator Fan Load		5 kW	Excitation System	Excitation System	
Heat Radiation to Room (PRP)		11 kW	AVR Model	Stamford	d – AS440
Heat Radiation to Room (ESP)		12.2 kW	ALTERNATOR OP	ALTERNATOR OPERATING D	
LUBRICATION SYSTEM			Overspeed	Overspeed	
Oil Filter Type Spin		on full flow filter	Voltage Regulation	Voltage Regulation	
Total Oil Capacity		16.5 L (4.36 US gal)	Waveform distortion	Waveform distortion	
Oil Pan		14.9 L (3.93 US gal)	Radio Interface	EN 6100	00-6-2 & EN 61000-6-4
Oil Type API CH4/		/CI4; SAE 15W-40	Cooling Air Flow		0.617 m³/sec

⁽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 188P

Industrial Generating Set



CONTROLLER SPECIFICATIONS						
Controller Make & N	DeepSea 4520					
Operation Mode	MRS / AMF (optional)					
Display Graphic Back		:-lit LCD (128x64) pixles				
Ingress Protection F	IP65					
Binary Inputs/Outpu	4/4					
Analog Inputs	3					
Measurement Vac, A, H		z, 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 Stan		ndard Lifting			
Emergency External E		mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	74 dB(A)				

GENSET DIMENSIONS & WEIGHT Length Width Height Fuel Tank **GENSET TYPE** Dry Weight (kg) Wet Weight (kg) (mm) (mm) (mm) Capacity (L) **OPEN** 2760 900 1610 450 1515 1600 430 2070 2120 **CLOSE** 3764 1155 1869

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



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