PI 400P

Industrial Generating Set



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI400P	1500 / 50	400 / 230	350 kVA / 280kWe	400 kVA / 320 kWe

Full rated power available upto 100 meter elevation at ambient of 27degC, for other temperature and altitude limits please consult application

team. ENGINE SPECIFICATIONS					
324 kW _m					
368 kW _m					
Perkins 2206A-E13TAG2					
6 Vertical In-line					
4 Strokes					
Turbocharged & Air to Air Cooled					
Water					
Electronic					
G2 - ISO 8528 Part 1					
16.3:1					
12.5 L(762.in ³)					
130x157 mm					
24 VDC , 70 Amp					
Dry Element					
21.3 m ³ /min					
23.6 m ³ /min					
563 m³/min					
563 m³/min					
563 m³/min					
563 m³/min 51.4 L (13.57 US gal)					
51.4 L (13.57 US gal)					
51.4 L (13.57 US gal) Centrifugal Eng-Driven					
51.4 L (13.57 US gal) Centrifugal Eng-Driven 14 kW					
51.4 L (13.57 US gal) Centrifugal Eng-Driven 14 kW 24.1 kW 32.2 kW					
51.4 L (13.57 US gal) Centrifugal Eng-Driven 14 kW 24.1 kW					
51.4 L (13.57 US gal) Centrifugal Eng-Driven 14 kW 24.1 kW 32.2 kW					
51.4 L (13.57 US gal) Centrifugal Eng-Driven 14 kW 24.1 kW 32.2 kW replaceable 'Ecoplus' filter					

UEL SYSTEM	
Fuel Filter: Replaceable 'Ecop	olus' fuel filter elements with
primary filter/water separator Recommended Fuel	Class A2 Diesel
	0.000 / 12 2.000.
Fuel Consumption Standby	80 L/hr (21.1 US gal/hr)
Fuel Consumption 100% PRF	
Fuel Consumption 75% PRP	54 L/hr (14.3 US gal/hr)
Fuel Consumption 50% PRP	37 L/hr (9.8 US gal/hr)
XHAUST SYSTEM	Desidential Crede
Muffler Type	Residential Grade
Max. Back Pressure	6.8 kPa
Exhaust Gas Flow (PRP/ESP)	
Exhaust Gas Temperature	630°C
LTERNATOR SPECIFICA	ATIONS
Rated Output (Prime) (1)	360 kVA
Rated Output (Standby) (2)	415 kVA
Alternator Make & Model	Stamford S4L1D- E41
Number of Poles	4
Number of Winding Leads	12
Type of Bearing	Single
Insulation Class / Temp Rise	H/H
Efficiency @ Rated Voltage	92.5%
Ingress Protection Rating	IP 23
Excitation System	Self Excited
AVR Model Stamf	ord - AS440
LTERNATOR OPERATIN	NG DATA
Overspeed	2250 r.p.m
Voltage Regulation	± 1 %
Waveform distortion	No load < 1.5%, Linear load < 5%
Radio Interface EN 61	000-6-2 & EN 61000-6-4
Caaling Ain Flanc	0.03/

⁽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

Cooling Air Flow

⁽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.



0.8 m³/sec

ALL RIGHTS RESERVED - 2024

PI 400P

Industrial Generating Set



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

Enclosure Type Acoustic & Weather Proof Anticorrosive Protection Polyester Powder Coated Galvanized Sheet Ingress Protection Rating IP22
Polyester Powder Coated Galvanized Sheet
Ingress Protection Rating IP22
Lifting ISO Standard Lifting
Emergency External Emergency Push Butto
Canopy RAL Color RAL 2000
Baseframe RAL Color RAL 9011
Noise Pressure level @ 1m 83 dB(A)±3dB(A)

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)Appx	Wet Weight (kg)Appx
OPEN	3500	1695	2275	820	3800	3950
CLOSE	5170	1590	2600	1020	5000	5150

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.

Residential Grade Muffler with rain cap.

STANDARD ELECTRICAL FEATURES

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.

OPTIONAL FEATURES

Advanced Controllers are available on request.

4 poles manual / Motorized Circuit breaker

Jacket water pre-heater

Static Battery Charger

Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

Application

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





