PRECIS	الطبناعات المقا ION INDUSTRIES ®	PI 1385P Industrial Generating Set		POWERED	Perkir	
MODEL	rpm / Hz	VOLTAGE	PRIME <sup>(1</sup>	)	STANDBY <sup>(2)</sup>	
PI 1385P 1800 / 60		480 / 277	1253 kVA / 1002.4kWe		1385 kVA / 1108 kWe	
	IFICATIONS		FUEL SYSTEM			
Rated Output (	PRP) <sup>(1)</sup>	1113 kW <sub>m</sub> Fuel Filter: Full-flo		w spin-on fuel oil filters		
Rated Output (ESP) (2)		1224 kW <sub>m</sub>	Recommended Fuel		Class A2 Diesel	
Engine Make & Model		Perkins 4012- 46TWG2A	Fuel Consumption Standby		298 L/hr (78.72 US gal/hr)	
No. of Cylinder	S	12, 60° Vee form	Fuel Consumption 100% PRP		266 L/hr (70.26 US gal/hr)	
Cycle		4 Strokes	Fuel Consumption 75% PRP		ТВА	
Aspiration		Turbocharged & Air to Water Charge Cooled	Fuel Consumption 50% PRP TBA		ТВА	
Cooling Method		Water	EXHAUST SYSTEM			
Governing Type		Electronic	Muffler Type		Industrial Grade	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		3 kPa	
Compression Ratio		13:1	Exhaust Gas Flow		235 m <sup>3</sup> /min	
Displacement		45.8 L (2746in <sup>3</sup> )	Exhaust Gas Temperature		435 <sup>0</sup> C	
BorexStroke (mm/in)		160x190 /6.3x7.5	ALTERNATOR SPECIFICATIONS			
Battery and Cha	arger Alternator	24 VDC , 40 Amp	Rated Output (Prime) <sup>(1)</sup>		1694 kVA	
			Rated Output (Standby) <sup>(2)</sup>		1762 kVA	
Air Filter Type		Dry Element	Alternator Make & Model		Stamford S6L1D- H4	
Combustion Ai	r Flow (PRP)	111 m <sup>3</sup> /min	Number of Poles		4	
Combustion Ai	r Flow (ESP)	116 m <sup>3</sup> /min	Number of Winding Leads		6	
Radiator Air Fl	w	1700 m³/min	Type of Bearing		Single	
OOLING SYS	TEM		Insulation Class / Temp Rise		H/H	
Total Coolant	Capacity (L)	201 L (53 US gal)	Efficiency @ Rated Voltage		95.1%	
Water Pump Type		Centrifugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan L	oad	58 kW	Excitation System		Excited by P.M.G.	
Heat Radiation to Room (PRP)		84 kW	AVR Model Stamford		I - MX341	
Heat Radiation to Room (ESP)		96 kW	ALTERNATOR OPERATING DAT		DATA	
UBRICATION SYSTEM			Overspeed		2250 r.p.m	
Oil Filter Type Full-flow		v spin-on oil filters Voltage Regula			±1%	
Total Oil Capacity		177 L (46.7US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%	
Oil Pan		159 L (42 US gal)	Radio Interface	EN 6100	0-6-2 & EN 61000-6-4	
Oil Type API CH4/		CI4; SAE 15W-40 Cooling Air Flow			2.27 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

(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 6120				
Operation Mode	MRS / AMF (optional)				
Display	-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 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		ndard Lifting			
Emergency External E		mergency Push Button			
Canopy RAL Color	RAL 2000				
Baseframe RAL Col	RAL 9011				
Noise Pressure leve	84 dB(A)				

GENSET DIMENSIONS & WEIGHT						
GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	5000	2455	2650	2100	-	-
CLOSE	30 Feet ISO HQ Container		NA	13942	14042	

### 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

## 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.



Address: 24b St., Community 365 Al Quoz Ind. 2, Dubai, UAE | Tel: +971 4 338 4033 | Fax: +971 4 338 3997

ALL RIGHTS RESERVED - 2023

