

PI 24P / PI 26P



Industrial Generating Set

MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 24P / PI 26P	1800 / 60	480 / 277	24 kVA/19.2 kWe	26 kVA/20.8kWe

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

ENGINE SPECIFIC	ATIONS	
Rated Output (PRP)	(1)	22 kW _m
Rated Output (ESP)	24.3 kW _m	
Engine Make & Mod	Perkins 404D-22G	
No. of Cylinders	4 Vertical In-line	
Cycle		4 Strokes
Aspiration		Naturally Aspirated
Cooling Method		Water
Governing Type		Mechanical
Governing Class		G2 - ISO 8528 Part 1
Compression Ratio		23.3:1
Displacement		2.2 L (135.2in ³)
BorexStroke (mm/in)	84x100 / 3.3x3.9
Battery and Charger	Alternator	12 VDC ,65 Amp
AIR SYSTEM		
Air Filter Type	Dry Element	
Combustion Air Flow	v (PRP)	1.74 m ³ /min
Combustion Air Flov	v (ESP)	1.74 m ³ /min
Radiator Air Flow		41.4 m³/min
COOLING SYSTEM	Λ	
Total Coolant Capac	city (L)	7.0L (1.8 US gal)
Water Pump Type	Centrifugal Eng-Driven	
Radiator Fan Load	0.4 kW	
Heat Radiation to Ro	om (PRP)	3.8 kW
Heat Radiation to Ro	4.6 kW	
UBRICATION SYS	STEM	
Oil Filter Type	Spin	on full flow filter
Total Oil Capacity	10.6L (2.8 US gal)	
Oil Pan	8.9 L (2.35 US gal)	
Oil Type	CI4; SAE 15W-40	

FUEL SYSTEM			
Fuel Filter: Split elem	nent fuel filte	r	
Recommended Fuel	Class A2 Diesel		
Fuel Consumption S	6.9 L/hr (1.82 US gal/hr)		
Fuel Consumption 10	Fuel Consumption 100% PRP		
Fuel Consumption 75	5% PRP	4.8 L/hr (1.26 US gal/hr)	
Fuel Consumption 50)% PRP	3.5 L/hr (0.92 US gal/hr)	
EXHAUST SYSTEM	Л		
Muffler Type		Residential Grade	
Max. Back Pressure	•	10.2 kPa	
Exhaust Gas Flow (P	RP/ESP)	4.34 / 4.76 m ³ /min	
Exhaust Gas Temperature		440°C/510°C	
ALTERNATOR SPECIFICATIONS			
Rated Output (Prime) (1)		25 kVA	
Rated Output (Stand	dby) ⁽²⁾	27.5 kVA	
Alternator Make & M	1odel	Leroysomer TAL040F	
Number of Poles		4	
Number of Winding	Leads	6	
Type of Bearing		Single	
Insulation Class / Ter	mp Rise	H/H	
Efficiency @ Rated	Voltage	87.5%	
Ingress Protection R	Rating	IP 23	
Excitation System		Self Excited	
AVR Model	AVR Model Leroyson		
ALTERNATOR OPI	ERATING	DATA	
Overspeed		2250 r.p.m	
Voltage Regulation	Voltage Regulation		
Waveform distortion		No load < 3.5%, Linear load < 5%	
Radio Interface EN 61000		0-6-2 & EN 61000-6-4	
Cooling Air Flow	0.07 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 24P / PI 26P

Industrial Generating Set



CONTROLLER SPECIFICATIONS			
Controller Make & Model		DeepSea 4520MKII	
Operation Mode	MRS / AMF (optional)		
Display	Display Graphic Back		
Ingress Protection F	IP65		
Binary Inputs/Outpu	4 / 4		
Analog Inputs		3	
Measurement Vac, A, H		z, kVA, kW, Vdc	
Event Log Alarms Id		g, Hrs log	
Communication	USB		

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acoust		ic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection F	IP22		
Lifting ISO Star		ndard Lifting	
Emergency External E		mergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure level @ 7m		74 dB(A)	

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	1540	750	1250	92	560	580
CLOSE	2152	1004	1355	153	790	820

Note: These dimensions are for preliminary guidance. Please refer to GA drawing for asbuilt dimensions.

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.

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







