

PI 114P / PI 126P



Industrial Generating Set

Rev-2

MODEL	rnm	/ Hz	VOLTAGE	PRIME ⁽¹)	STANDBY ⁽²⁾	
an a) / 60 480 / 277			PRIME 7 114.5 kVA / 91.6kWe		
				or other temperature and alti		126.5 kVA / 101.2k	
am. NGINE SPECIFIC	ATIONS			FUEL SYSTEM			
Rated Output (PRP) ⁽¹⁾		106.8 kW _m		Fuel Filter: Ecoplus fuel filter			
Rated Output (ESP) ⁽²⁾		117.5 kW _m		Recommended Fuel		Class A2 Diese	
Engine Make & Model		Perkins 1104C-44TAG2		Fuel Consumption Standby		29.7 L/hr (7.84 US ga	
No. of Cylinders		4 Vertical In-line		Fuel Consumption 100% PRP		26.9 L/hr (7.10 US ga	
Cycle		4 Stro	kes	Fuel Consumption 7	5% PRP	20.2 L/hr (5.33 US ga	
Aspiration			arged & Air to	Fuel Consumption 50	0% PRP	14.1 L/hr (3.72 US ga	
Cooling Method		Air Charge Cooled Water		EXHAUST SYSTEM	EXHAUST SYSTEM		
Governing Type		Electro	onic	Muffler Type		Residential Gra	
Governing Class		G2 - 15	O 8528 Part 1	Max. Back Pressure	Max. Back Pressure		
Compression Ratio		18.2:1		Exhaust Gas Flow (PRP/ESP)		18.4 / 20.4 m ³ /	
Displacement		4.4 L (269in ³)	Exhaust Gas Temperature (PRP/ESP)		517 ⁰ C / 574 ⁰ C	
BorexStroke (mm/in)		105x1	27 / 4.1x 5	ALTERNATOR SPECIFICATIONS			
Battery and Charger Alternator		12 VD	C , 65 Amp	Rated Output (Prime) ⁽¹⁾		125 kVA	
AR SYSTEM				Rated Output (Standby) ⁽²⁾		138 kVA	
Air Filter Type		Dry El	ement	Alternator Make & Model		Leroysomer TAL044D	
Combustion Air Flow	w (PRP)	7.75 m	n ³ /min	Number of Poles		4	
Combustion Air Flow (ESP)		7.8 m ³	/min	Number of Winding Leads		6	
Radiator Air Flow		225.6	m³/min	Type of Bearing		Single	
COOLING SYSTEM	Λ			Insulation Class / Temp Rise		H/H	
Total Coolant Capa	city (L)	12.6L	(3.3 US gal)	Efficiency @ Rated Voltage		91.1%	
Water Pump Type		Centrifu	ugal Eng-Driven	Ingress Protection Rating		IP 23	
Radiator Fan Load		5.1 kV	/	Excitation System		Self Excited	
Heat Radiation to Room (PRP)		8.5 kV	/	AVR Model Leroyson		mer R120	
Heat Radiation to Room (ESP)		9.4 kV	/	ALTERNATOR OPERATING DATA		DATA	
			Overspeed 2250 r.p.		2250 r.p.m		
Oil Filter Type Spin		on full flo	w filter	Voltage Regulation		±1%	
Total Oil Capacity	·	8 L (2.	1 US gal)	Waveform distortion		No load < 2%, Linear load < 5	
Oil Pan		7 L (1.	85 US gal)	Radio Interface EN 61000-6		0-6-2 & EN 61000-	
Oil Type	API CH4	/CI4; SAE	E 15W-40	Cooling Air Flow 0.3		0.34 m ³ /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.





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CONTROL	LER SPECIF	
		IGATIONS

Controller Make & M	DeepSea 4520MKII		
Operation Mode	MRS / AMF (optional)		
Display	-lit LCD (128x64) pixles		
Ingress Protection F	IP65		
Binary Inputs/Outpu	4 / 4		
Analog Inputs	3		
Measurement	Vac, A, Hz, kVA, kW, Vdc		
Event Log	g, Hrs log		
Communication	USB		

ENCLOSURE SPECIFICATIONS				
Enclosure Type Acoust		ic & Weather Proof		
Anticorrosive Protection				
Polyester Powder Coated Galvanized Sheet				
Ingress Protection R	IP22			
Lifting ISO Stan		dard Lifting		
Emergency External E		mergency Push Button		
Canopy RAL Color	RAL 2000			
Baseframe RAL Col	RAL 9011			
Noise Pressure leve	77 dB(A) ± 3dBA			

GENSET DIMENSIONS & WEIGHT

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	2195	900	1445	261	1295	1310
CLOSE	2977	1155	1706	245	1680	1700

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 $^{\circ}$ 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.

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

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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.

