

# PI 625P / PI 687P

## **Industrial Generating Set**



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 625P / PI 687P	1800 / 60	480 / 277	625 kVA / 500 kWe	687 kVA / 549.6 kWe

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

Rated Output (PRP) (1)		568 kW <sub>m</sub>	Fuel Filte
Rated Output (ESP) (2)		623 kW <sub>m</sub>	primary filt Recomm
		Perkins 2806A-E18TAG1A	Fuel Con
No. of Cylinders			Fuel Cons
Cycle		4 Strokes	Fuel Cons
Aspiration		Turbocharged & Air to Air Charge Cooled	Fuel Cons
Cooling Method		Water	EXHAUS1
Governing Type		Electronic	Muffler T
Governing Class		G2 - ISO 8528 Part 1	Max. Bac
Compression Ratio		14.5:1	Exhaust 0
Displacement		18.1 L (1104.in <sup>3</sup> )	Exhaust (PRP/ES
BorexStroke		145x183 mm	ALTERNA
Battery and Charger	Alternator	24 VDC , 70 Amp	Rated Ou
AIR SYSTEM			Rated Ou
Air Filter Type		Dry Element	Alternato
Combustion Air Flov	w (PRP)	43 m <sup>3</sup> /min	Number of
Combustion Air Flor	v (ESP)	45 m <sup>3</sup> /min	Number
Radiator Air Flow		852 m³/min	Type of E
COOLING SYSTEM	Л		Insulation
Total Coolant Capa	city (L)	61 L (16.1 US gal)	Efficiency
Water Pump Type		Centrifugal Eng-Driven	Ingress F
Radiator Fan Load		15 kW	Excitation
Heat Radiation to Room (PRP)		40 kW	AVR Mod
Heat Radiation to Room (ESP)		44 kW	ALTERNA
rieat Nadiation to No	( )		
	. ,		Overspe
	STEM	placeable 'Ecoplus' filter	Overspee Voltage F
UBRICATION SY	STEM	placeable 'Ecoplus' filter 62 L (16.3 US gal)	
Oil Filter Type	STEM		Voltage F
Oil Filter Type  Total Oil Capacity	STEM Full-flow re	62 L (16.3 US gal)	Voltage F

Fuel Filter: Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator				
Recommended Fuel	Class A2 Diesel			
Fuel Consumption Standby	141 L/hr (37.24 US gal/hr)			
Fuel Consumption 100% PRP	127 L/hr (33.54 US gal/hr)			
Fuel Consumption 75% PRP	95 L/hr (25.09 US gal/hr)			
Fuel Consumption 50% PRP	66 L/hr (17.43 US gal/hr)			
EXHAUST SYSTEM				
Muffler Type	Residential Grade			
Max. Back Pressure	6 kPa			
Exhaust Gas Flow (PRP/ESP)	109 / 118 m³/min			
Exhaust Gas Temperature (PRP/ESP)	481°C/489°C			

ALTERNATOR SPECIFICATIONS				
Rated Output (Prime	750 kVA			
Rated Output (Stand	819 kVA			
Alternator Make & M	Leroysomer TAL0473E			
Number of Poles	4			
Number of Winding	6			
Type of Bearing	Single			
Insulation Class / Te	H/H			
Efficiency @ Rated	94.8%			
Ingress Protection R	IP 23			
Excitation System	Self Excited			
AVR Model Leroysome		er R150		

ALTERNATOR OPERATING DATA				
Overspeed	2250 r.p.m			
Voltage Regulation	± 1 %			
Waveform distortion	No load < 2.5%, Linear load < 5%			
Radio Interface EN 61000-		6-2 & EN 61000-6-4		
Cooling Air Flow	1.1 m³/sec			

<sup>(</sup>f) 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

<sup>(2)</sup> 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 625P / PI 687P

# **Industrial Generating Set**



CONTROLLER SPECIFICATIONS				
Controller Make & N	DeepSea 6120MKIII			
Operation Mode	MRS / AMF (optional)			
Display	-lit LCD (128x64) pixles			
Ingress Protection F	IP65			
Binary Inputs/Outpu	8 / 6			
Analog Inputs	4			
Measurement Vac, A		z, kVA, kW, Vdc		
Event Log	Alarms lo	g, Hrs log		
Communication	USB			

ENCLOSURE SPECIFICATIONS				
Enclosure Type Acousti		c & 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 leve	86 dB(A)			

## **GENSET DIMENSIONS & WEIGHT**

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	3500	2145	2385	1256	5100	5200
CLOSE	5205	1824	2817	1256	5850	5960

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.

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





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