













## Mechancial Power driven by **Perkins**

- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007.
- O Manufactured in accordance to 8528-1 to 12.
- O Engine performance according to ISO 3046, BS 5514, DIN 6271.
- Alternator performance according to NEMA-MG1, BS 5000, DIN EN, relevant ISO, IEC60034.
- O Breaker complise with IEC 60947-2.





# PI 1669P

### **Industrial Generating Set**



MODEL	rpm / Hz	VOLTAGE	PRIME (1)	STANDBY (2)
PI 1669P	1800 / 60	480 / 277	1510 kVA / 1208kWe	1669 kVA / 1335.2kWe

NGINE SPECIFIC	ATIONS			FUEL SYSTEM	
Rated Output (PRP	) (1)	1332 kW <sub>m</sub>		Fuel Filter: Full-flow spin-on fue	
Rated Output (ESP) (2)		1459 kW <sub>m</sub>		Recommended Fuel	
Engine Make & Model		Perkins 4012- 46TAG2A		Fuel Consumption Standby	
No. of Cylinders		12, 60° Vee form		Fuel Consumption 100% PRP	
Cycle		4 Strokes		Fuel Consumption 75% PRP	
Aspiration		Turbocharged & Air to Air Charge Cooled		Fuel Consumption 50% PRP	
Cooling Method		Water		EXHAUST SYSTEM	
Soverning Type		Electronic		Muffler Type	
Soverning Class		G2 - ISO 8528 Part 1		Max. Back Pressure	
Compression Ratio		13:1		Exhaust Gas Flow	
Displacement		45.8 L (2797.in <sup>3</sup> )		Exhaust Gas Temperature	
BorexStroke (mm/in)		160x190 /6.3x7.5		ALTERNATOR SPECIFICAT	
Battery and Charger Alternator		24 VDC , 40 Amp		Rated Output (Prime) (1)	
AIR SYSTEM				Rated Output (Standby) (2)	
Air Filter Type		Dry Element		Alternator Make & Model	
Combustion Air Flo	w (PRP)	120 m <sup>3</sup> /min		Number of Poles	
Combustion Air Flo	w (ESP)	128 m <sup>3</sup> /min		Number of Winding Leads	
Radiator Air Flow		1944 m³/min		Type of Bearing	
OOLING SYSTEI	VI		_	Insulation Class / Temp Rise	
Total Coolant Capa	city (L)	210 L (55.5 US gal)	Е	Efficiency @ Rated Voltage	
Water Pump Type		Centrifugal Eng-Driven	Ing	Ingress Protection Rating	
Radiator Fan Load		64 kW	Excitatio	Excitation System	
Heat Radiation to Ro	oom (PRP)	96 kW	AVR Model	AVR Model Stamford	
Heat Radiation to Room (ESP)		107 kW	ALTERNATOR	ALTERNATOR OPERATING	
UBRICATION SY	STEM		Overspeed		
Oil Filter Type	Full-flo	w spin-on oil filters	Voltage Regulation		
Total Oil Capacity	ı	177 L (46.75 US gal)	Waveform distortion		
Oil Pan		159 L (42 US gal)	Radio Interface EN 61	0	
Oil Type	API CH4	/CI4; SAE 15W-40	Cooling Air Flow		
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(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

<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 1669P

#### **Industrial Generating Set**



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

ENCLOSURE SPECIFICATIONS			
Enclosure Type Acou		ic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection R	IP23		
Lifting	Lifting ISO Star		
Emergency External E		mergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure leve	85 dB(A)		

#### **GENSET DIMENSIONS & WEIGHT**

GENSET TYPE	Length (mm)	Width (mm)	Height (mm)	Fuel Tank Capacity (L)	Dry Weight (kg)	Wet Weight (kg)
OPEN	5170	2190	2875	NA	10200	10300
CLOSE	30 Feet ISO HQ Container		NA	15400	15500	

#### 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

Residential / Critical grade muffler

Fuel Filter / Water seperator Fuel Filter

Remote Annunciator

#### **Application**

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





