

Mechancial Power driven by **Perkins**

- Manufactured in facilities certified with ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007.
- Manufactured in accordance to 8528-1 to 12.
- 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.



PRECISION INDUSTRIES

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PRECISION IN	VDUSTRIES	PI 15	500P enerating Set	POWERED	BY 🍪 Perki
MODEL	rpm / Hz		PRIME ⁽¹		STANDBY ⁽²⁾
PI 1500P	1800 / 60	480 / 277	1360 kVA / 1088	skvve	1500 kVA / 1200 kWe
ENGINE SPECIFIC	ATIONS		FUEL SYSTEM		
Rated Output (PRP) (1)	1207 kWm Fuel Filter: Full-		ow spin-on fuel oil filters	
Rated Output (ESP) (2)	1321 kW _m	Recommended Fuel		Class A2 Diesel
Engine Make & Mo		Perkins 4012- 46TWG3A	Fuel Consumption S	Fuel Consumption Standby	
No. of Cylinders		12, 60° Vee form	Fuel Consumption 10	Fuel Consumption 100% PRP	
Cycle		4 Strokes	Fuel Consumption 7	Fuel Consumption 75% PRP	
Aspiration		Turbocharged & Air to Water Charge Cooled	Fuel Consumption 50	0% PRP	ТВА
Cooling Method		Water	EXHAUST SYSTE	М	
Governing Type		Electronic	Muffler Type	Muffler Type	
Governing Class		G2 - ISO 8528 Part 1	Max. Back Pressure		3 kPa
Compression Ratio		13.6:1	Exhaust Gas Flow		240 m ³ /min
Displacement		45.8 L (2746in ³)	Exhaust Gas Temperature		482 ⁰ C
BorexStroke (mm/in)		160x190 /6.3x7.5	ALTERNATOR SPECIFICATIONS		TIONS
Battery and Charger	Alternator	24 VDC , 40 Amp	Rated Output (Prime) ⁽¹⁾		1690 kVA
AIR SYSTEM			Rated Output (Stan		1810 kVA
Air Filter Type		Dry Element	Alternator Make & Model		Stamford PI734B
Combustion Air Flo	w (PRP)	111 m ³ /min	Number of Poles		4
Combustion Air Flor	w (ESP)	117 m ³ /min	Number of Winding Leads		6
Radiator Air Flow		1855 m³/min	Type of Bearing		Single
COOLING SYSTE	N		Insulation Class / Te	Insulation Class / Temp Rise	
Total Coolant Capa	city (L)	201 L (53 US gal)	Efficiency @ Rated Voltage		94.9%
Water Pump Type	Water Pump Type		Ingress Protection Rating		IP 23
Radiator Fan Load		58 kW	Excitation System		Excited by P.M.G.
Heat Radiation to Room (PRP)		88 kW	AVR Model	AVR Model Stamford	
Heat Radiation to Room (ESP)		100 kW	ALTERNATOR OP	ALTERNATOR OPERATING	
LUBRICATION SY	STEM		Overspeed		2250 r.p.m
Oil Filter Type Full-flow		v spin-on oil filters	Voltage Regulation		±1%
Total Oil Capacity		177 L (40.4US gal)	Waveform distortion		No load < 1.5%, Linear load < 5%
Oil Pan		159 L (42 US gal)			0-6-2 & EN 61000-6-4
Oil Type API CH4		CI4; SAE 15W-40	Cooling Air Flow	×	3.45 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.





POWERED BY **Perkins**

CONTROLLER SPEC	TEICATIONS
ICONTROLLER SPEC	

Controller Make & M	DeepSea 6120		
Operation Mode	MRS / AMF (optional)		
Display	Graphic Back-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 Acousti		ic & Weather Proof	
Anticorrosive Protection			
Polyester Powder Coated Galvanized Sheet			
Ingress Protection R	IP23		
Lifting	ISO Standard Lifting		
Emergency	External E	mergency Push Button	
Canopy RAL Color	RAL 2000		
Baseframe RAL Col	RAL 9011		
Noise Pressure leve	84 dB(A)		
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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	13000	13100	

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.



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