



PI Model	Hz/rpm	Voltage	Continuous	Prime	Standby
PI 1500P	50/1500	400/230	1083.9 kVA 867.1 kWe	1370.0 kVA 1096.1 kWe	1502.0 kVA 1202.3 kWe
N/A	60/1800	480/240	N/A	N/A	N/A

Applicable Standard and References: ISO 8528-1; ISO 3046-1; BS 5514-1
The above given ratings are at 0.8 power factor (PF)

Engine Technical Data				Alternator Technical Data			
Engine Make & Model		Perkins 4012-46TWG3A		Alternator Make & Model		Stamford PI734C	
No. of Cylinders		12 - 60° Vee		No. of Poles		4	
Cycle		4		WINDING LEADS		6	
Aspiration		Turbocharged & Air-Water Charged		No. of Bearings		Single	
Cooling Method		Water Cooled		Insulation Class		Class H	
Governing Type		Electronic		Winding Pitch		TWO THIRDS	
Governing Class		ISO 8528 Part 1 G3		Ingress Protection Rating		IP-23	
Compression Ratio		13.6:1		Excitation System		SHUNT	
Displacement (L)		45.84		AVR Model		MX341	
Bore/Stroke (mm)		160/190		Alternator operating Data		50Hz	60Hz
Battery Charger, Ampere		24 Volts DC, 40 Amp		Overspeed (RPM)		2250	
Air System		50Hz	60Hz	Voltage Regulation		± 0.1 %	
Air Filter Type		Cylindrical paper pleat		Wave Form NEMA = TIF		<50	
Combustion Air Flow m³/min (cfm)	Standby	116 (4096.5)	N/A	Wave Form IEC = THF		<1.5%	
	Prime	110 (3884.6)	N/A	Total Harmonic Content LL/LN		<2%	
Radiator Air Flow m³/min (cfm)		1855 (65508)		Radio Interference		Standard EN61000-6-2:2001	
Cooling System		50Hz	60Hz	Cooling Air Flow m³/sec(cfm)		2.69 (5700)	N/A
Cooling System Capacity (L)		201		Controller Technical Data			
Water Pump Type		Centrifugal Engine Driven		Controller Make & Model		ComAp - AMF9	
Radiator Fan Load kW (hp)		58 (77)	N/A	Operation mode		MRS / AMF(Optional)	
Heat Radiation to Room kW (BTU/min)	Standby	100 (5686)	N/A	Display		Graphic back-lit LCD (128x64)pixels	
	Prime	88 (5004)	N/A	Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system				Binary Inputs/Outputs		4 / 6	
Oil Filter Type		Spin on full flow filter		Analog inputs		3	
Total Oil Capacity I (US gal)		177 (46.7)		Measurement		Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		157.7 (41.5)		Event Log		Alarms log, Hours log	
Oil Type		API CH4		Communication (Optional)		USB, RS232, RS485, GSM, ETHERNET	
Cooling Method		Water Cooled		Gen-set Enclosure Specification (optional)			
Fuel System		50Hz	60Hz	Enclosure Type		Acoustic and Weather Proof	
Fuel Filter Type		Spin on fuel filters with water separator		Anticorrosive Protection		Polyester Powder Coated Galvanized Sheet	
Recommended Fuel		Class A2 Diesel		Ingress Protection rating		Weather Proof IP23	
Fuel Consumption: l/hr (US gal/hr)		Prime	Standby	Prime	Standby	Transportation	
	110%	325 (85.5)	N.A.	N/A	N/A	ISO standard lifting	
	100%	291 (76.8)	N.A.	N/A	N/A	Noise level	
	75%	227 (59.9)	N.A.	N/A	N/A	65 dbA @ 7 meters	
	50%	N.A.	N.A.	N/A	N/A	Emergency	
				Canopy RAL color		RAL 2000	
				Chassis RAL color		RAL 9011	
Exhaust System		50Hz		Dimensions		Open Type	Enclosure
Silencer Size & Model		(2x10") Industrial		Length (mm)		5170	12230
Silencer Noise Reduction Level		11-15 dBA		Width (mm)		2190	2440
Max. Back Pressure kPa (in. Hg)		5.0 (1.47)		Height (mm)		2480	3900
Exhaust Gas Flow L/s (cfm)	Standby	N.A.		Weight (kg)		10200	13000
	Prime	4166 (8828)		Fuel Tank Capacity (L)		N/A	N/A
Exhaust Gas Temperature °C (°F)	Standby	N.A.					
	Prime	478 (892.4)					

- Notes:
- 1-Prime power rating of generating set is a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation.
 - 2-Standby power rating of the generating set is a variable load limited to an annual usage upto 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted.
 - 3- Warranty: one year or (1000) hours which comes first.
 - 4- Referring to our company policy of continuous development, PI reserves the right to change specification without notice.

N.A. - Not Available
N/A - Not Applicable to this Engine
TBD - To Be Determined