



PI Model	Hz/rpm	Voltage	Continuous	Prime	Standby
PI 2028P	50/1500	400/230	1463 kVA 1170 kWe	1844 kVA 1476 kWe	2028 kVA 1622 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 4016-TAG1A		Alternator Make & Model		Stamford PI734E	
No. of Cylinders		16 - 60° Vee		No. of Poles		4	
Cycle		4		WINDING LEADS		6	
Aspiration		Turbocharged & Air-Air 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)		61.12		AVR Model		MX341	
Bore/Stroke (mm)		160/190		Alternator operating Data		50Hz	60Hz
Battery Charger, Ampere		24 Volts DC, 55 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	140 (4944)	N/A	Wave Form IEC = THF		<1.5%	
	Prime	132 (4661)	N/A	Total Harmonic Content LL/LN		<2%	
Radiator Air Flowm³/min (cfm)		2394 (84543)		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)		51 (68.3)	N/A	Operation mode		MRS / AMF(Optional)	
Heat Radiation to Room kW (BTU/min)	Standby	107 (6085)	N/A	Display		Graphic back-lit LCD (128x64)pixels	
	Prime	103 (5858)	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)		237.2 (62.6)		Measurement		Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		214.0 (56.5)		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%	424 (112)	N.A.	N/A	N/A	ISO standard lifting	
	100%	383 (101)	N.A.	N/A	N/A	Noise level	
	75%	277 (73.1)	N.A.	N/A	N/A	82 dbA @ 7 meters	
	50%	155 (40.9)	N.A.	N/A	N/A	Emergency	
Exhaust System		50Hz		Canopy RAL color		RAL 2000	
Silencer Size & Model		(2x10") Industrial		Chassis RAL color		RAL 9011	
Silencer Noise Reduction Level		11-15 dBA		Dimensions		Open Type	Enclosure
Max. Back Pressure kPa (in. Hg)		3.0 (0.88)		Length (mm)		6000	12200
Exhaust Gas Flow L/s (cfm)	Standby	5716 (12112)	N/A	Width (mm)		2760	3500
	Prime	5716 (12112)	N/A	Height (mm)		3700	4000
Exhaust Gas Temperature °C (°F)	Standby	439 (822.2)	N/A	Weight (kg)		14500	19870
	Prime	439 (822.2)	N/A	Fuel Tank Capacity (L)		N/A	N/A

- 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 ff which may be continuous running. Noting that no overload is 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