



PI Model	Hz/rpm	Voltage	Prime	Standby
N/A	50/1500	400/230	N/A	N/A
PI 75C	60/1800	380/220	67.0 kVA 54.0 kWe	75.0 kVA 60.0 kWe

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		Cummins S3.8-g10		Alternator Make & Model		STAMFORD UC1224E	
No. of Cylinders		4 In-line		No. of Poles		4	
Cycle		4		WINDING LEADS		12	
Aspiration		Turbocharged		No. of Bearings		Single	
Cooling Method		Water		Insulation Class		Class H	
Governing Type		Mechanical		Winding Pitch		TWO THIRDS	
Governing Class		ISO 8528 Part 1 G2		Ingress Protection Rating		IP-23	
Compression Ratio		17.5:1		Excitation System		SELF EXCITED	
Displacement (L)		3.8		AVR Model		SX460	
Bore/Stroke (mm)		97/128		Alternator operating Data		50Hz	60Hz
Battery Charger, Ampere		12 Volts DC, 40 Amp		Overspeed (RPM)		2250	
Air System		50Hz	60Hz	Voltage Regulation		± 1.0 %	
Air Filter Type		Dry Element (replaceable)		Wave Form NEMA = TIF		<50	
Combustion Air Flow m³/min (cfm)	Standby	N/A	6.2 (219)	Wave Form IEC = THF		<2%	
	Prime	N/A	5.7 (2010)	Total Harmonic Content LL/LN		2%	
Radiator Air Flow m³/min (cfm)		N/A	147 (5362)	Radio Interference		Standard EN61000-6-2:2001	
Cooling System		50Hz	60Hz	Cooling Air Flow m³/sec(cfm)		N/A	0.281 (595)
Total Coolant capacity (L)		7		Controller Technical Data			
Water Pump Type		Centrifugal Engine Driven		Controller Make & Model		ComAp - AMF9	
Radiator Fan Load kW (hp)		N/A	2.4 (3.2)	Operation mode		MRS / AMF(Optional)	
Heat Radiation to Room kW (BTU/min)	Standby	N/A	8.0 (409)	Display		Graphic back-lit LCD (128x64)pixels	
	Prime	N/A	7.0 (370)	Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system				Binary Inputs/Outputs		4 / 6	
Oil Filter Type		Spin on full flow filter, 25 micron		Analog inputs		3	
Total Oil Capacity I (US gal)		10.0 (2.65)		Measurement		Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		9.0 (2.40)		Event Log		Alarms log, Hours log	
Oil Type		API CH4/CI4; SAE 15W-40		Communication (Optional)		USB, RS232, RS485, GSM, ETHERNET	
Cooling Method		Water		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%	N/A		17.9 (4.7)	N.A.	ISO standard lifting	
	100%	N/A		16.2 (4.3)	17.9 (4.7)	Noise level	
	75%	N/A		12.1 (3.2)	N.A.	Emergency	
	50%	N/A		8.3 (2.2)	N.A.	External Emergency Push Botton	
Exhaust System		50Hz	60Hz	Canopy RAL color		RAL 2000	
Silencer Size & Model		(2") Industrial		Chassis RAL color		RAL 9011	
Silencer Noise Reduction Level		11-15 dBA		Dimensions		Open Type	Enclosure
Max. Back Pressure kPa (in. Hg)		3.38 (1.0)		Length (mm)		1990	2794
Exhaust Gas Flow L/s (cfm)	Standby	N/A	103.4 (219)	Width (mm)		1092	1110
	Prime	N/A	100.0 (212)	Height (mm)		1530	1698
Exhaust Gas Temperature °C (°F)	Standby	N/A	473 (883)	Weight (kg)		1153	1659
	Prime	N/A	448 (838)	Fuel Tank Capacity (L)		261	261

- 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

