



PI Model	Output Power Ratings			Prime Power		Standby Power	
	rpm	Frequency	Voltage	kVA	kWe	kVA	kWe
PI 1400C	1500	50Hz	400	1275	1020	1400	1120
PI 1610C	1800	60Hz	480	1418	1135	1610	1288

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				Air System				
Engine Make and Model	Cummins KTA50-G3			Air Filter Type	Dry Element (replaceable)			
Cylinders	16-Cylinder; 60°Vee			Combustion Air Flow m <sup>3</sup> /min. (cfm)	Prime	96.2 (3400)		
Intake	Turbocharged, Aftercooled				Standby	104.7 (3700)		
Combustion System	Direct Injection			Max Air Filter Intake Restriction	3.74 Kpa			
Displacement	50.3 Lit			Lubrication System				
Governor	Electronic			Lube Oil	API CH4/CI4; SAE 15W-40			
Emission Regulation	N/A			Lube Oil Capacity	177 Lit			
Electrical Starting System	24 V starter motor			Oil Pan Max/Min	151/121 Lit			
Fuel System				Cooling System				
Fuel Filter Type	Replaceable Elements			Coolant Capacity	152 L			
Recommened Fuel	Class A2 Diesel			Cooling System	Monted Radiator, Air-Air Charge Cooled			
Fuel Consumption l/hr (US gal/hr)	Standby Power	293 (77.4)		Fan Air Flow m <sup>3</sup> /min. (cfm)	1818 (64202)			
	Prime Power	261 (69.0)		Heat Radiation to Room	Prime	130 kWm		
	75% of Prime	199 (52.5)			Standby	150 kWm		
	50% of Prime	139 (36.6)						
Exhaust System				Alternator Technical data		Stamford / or equivalent		
Silencer	Grade	Industrial		Model	PI734B			
	Size	6.5"		N° of Poles	4		Protection	IP-23
	Qty	2		N° of Terminals	6		Insulation Class	H
Exhaust Gas Flow m <sup>3</sup> /min. (cfm)	Prime	223.7 (7900)		AVR and Excit.	MX321		Total Harmonic	<2%
	Standby	240.6 (8500)		Regulation	+/- 0.5%		TIF	< 50
Max Allowable Backpressure	6.8 kPa			Cooling Air Flow m <sup>3</sup> /min. (cfm)	161.4 (5700)			
Exhaust Gas Max. Temperature	525°C							
Controller Features		ComAp - AMF9 / DSE (optional)		Gen-set Enclosure Specification (optional)				
Controller Make and Model	Auto Mains Failure (AMF) application including remote communication, User configuration and complete gen-set monitoring and protection.			Enclosure Type	Acoustic and Weather Proof			
				Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet			
Engine protection	Oil Pressure	Fuel level (option)		Ingress Protection rating	Weather Proof IP23			
	Coolant Temperature			Transportation	ISO standard lifting			
Generator Protection	Over / Under Voltage	Over Current		Noise level	65 dbA @ 7 meters			
	Over / Under Frequency	Phases Sequence		Emergency Stop	External Emergency Push Botton			
	Charging Alternator Fault			Canopy RAL color	RAL 2000			
Inputs and Outputs	3 No's Configurable Analog Inputs			Chassis RAL color	RAL 9011			
	4 No's Binary Inputs			Shipping data				
	6 No's Binary Outputs			Type	Lenght (mm)	Width (mm)	Height (mm)	Weight (kg)
Event and Performance Log	Gen-set Text Alarm Log			Open	5000	2000	2500	10100
	Engine Hours History Log			Enclosure	40 feet ISO HQ Container			15100

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.