PRECISION INDUSTRIES®

LIGHTING THE WORLD

PI Model	Output Power Ratings			Prime Power		Standby Power	
	rpm	Frequency	Voltage	kVA	kWe	kVA	kWe
N.A	1500	50Hz	400	N.A	N.A	N.A	N.A
PI 1875C	1800	60Hz	480	1619	1295	1875	1500

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-G9		Air Filter Type	Dry Element (replaceable)	
Cylinders	16-Cylinder; 60°Vee		Combustion Air Flow m^3/min. (cfm)	Prime	116.1 (4100)
Intake	Turbocharged, Low Temp. Aftercooled			Standby	124.5 (4400)
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	204 Lit	
Electrical Starting System	24 V starter motor		Oil Pan Max/Min	178/148 Lit	
Fuel System			**Cooling System**		
Fuel Filter Type	Replaceable Elements		Coolant Capacity	240 L	
Reccomended Fuel	Class A2 Diesel		Cooling System	Monted Radiator, Air-Air Charge Cooled	
Fuel Consumption l/hr (US gal/hr)	Standby Power	392 (103.6)	Fan Air Flow m^3/min. (cfm)	1692 (59752)	
	Prime Power	330 (87.3)	Heat Radiation to Room	Prime	200 kWm
	75% of Prime	257 (68.0)		Standby	170 kWm
	50% of Prime	180 (47.6)			
Exhaust System			**Alternator Technical data**		**Stamford / or equivalent**
Silencer	Grade	Industrial	Model		PI734C
	Size	6"	N° of Poles	4	Protection IP-23
	Qty	2	N° of Terminals	6	Insulation Class H
Exhaust Gas Flow m^3/min. (cfm)	Prime	271.8 (9600)	AVR and Excit.	MX321	Total Harmonic <2%
	Standby	301.5 (10650)	Regulation	+/- 0.5%	TIF < 50
Max Allowable Backpressure	6.8 kPa		Cooling Air Flow m^3/min. (cfm)	207 (7300)	
Exhaust Gas Max. Temperature	515°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) Hight (mm) Weight (kg)
Event and Performance Log	Gen-set Text Alarm Log		Open	5500	2000 3030 10700
	Engine Hours History Log		Enclosure	8500	2250 3300 18400

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.