



PI Model	Hz/rpm	Voltage	Prime	Standby
N/A	50/1500	400/230	N/A	N/A
PI3438C	60/1800	380/220	2500 kWe 3125 kVA	2750 kWe 3438 kVA

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 QSK78-G8		Alternator Make & Model		Stamford LV 804 S	
No. of Cylinders		18, Vee Shape		No. of Poles		4	
Cycle		4		WINDING LEADS		12	
Aspiration		Turbocharged & Aftercooled		No. of Bearings		Single	
Cooling Method		Water		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		15.5 : 1		Excitation System		Separately Excited by PMG	
Displacement (L)		77.6		AVR Model		MA330	
Bore/Stroke (mm)		170/190		Alternator operating Data		50Hz	60Hz
Battery Charger, Ampere		24 Volts DC,55 Amp		Overspeed (RPM)		2250	
Air System		50Hz	60Hz	Voltage Regulation		± 0.5 %	
Air Filter Type		Dry Element (replaceable)		Telephone Interference (TIF)		<50	
Combustion Air Flow m ³ /min (cfm)	Standby	N/A	236.5 (8354)	Telephone Interference (THF)		<2%	
	Prime	N/A	225.3 (7958)	Wave Form Distortion		NL < 1.5% NON-DISTORT. BAL LD < 3.0%	
Radiator Air Flow m ³ /min (cfm)		N/A		Radio Interference		Standard EN61000-6-2:2001	
Cooling System		50Hz	60Hz	Cooling Air Flow m ³ /sec(cfm)		N/A	3.7 (7839)
Total Coolant capacity (L)		223.4		Controller Technical Data			
Water Pump Type		Dry Element (replaceable)		Controller Make & Model		DSE 7320 or Eq.	
Radiator Fan Load kW (hp)		N/A		Operation mode		Auto Main Failure (AMF)	
Heat Radiation to Room kW (BTU/min)	Standby	N/A	282 (16048)	Display		Graphic back-lit LCD	
	Prime	N/A	255 (14508)	Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system				Binary Inputs/Outputs		6 / 8	
Oil Filter Type		Spin on full flow filter		Analog inputs		4	
Total Oil Capacity I (US gal)		412.6 (109)		Measurement		Vac, A, Hz, kVA, kVAR, kW, kWh, Vdc	
Oil Pan I (US gal)		352.4 (93)		Event Log		Alarms log, Hours log	
Oil Type		API CH4/CI4; SAE 15W-40		Communication		USB, RS232, RS485	
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		701 (185)	N.A.	ISO standard lifting	
	100%	N/A		634 (167)	701 (185)	Noise level	
	75%	N/A		500 (132)	N.A.	Emergency	
	50%	N/A		352 (93.0)	N.A.	External Emergency Push Button	
Exhaust System		50Hz	60Hz	Canopy RAL color		RAL 2000	
Silencer Size & Model		(2*10") Industrial		Chassis RAL color		RAL 9011	
Silencer Noise Reduction Level		11-15 dBA		Dimensions		Open Type	Enclosure
Max. Back Pressure kPa (in. Hg)		7.0 (2.0)		Length (mm)		7300	12000
Exhaust Gas Flow L/s (cfm)	Standby	N/A	9250 (19599)	Width (mm)		2750	3000
	Prime	N/A	8619 (18263)	Height (mm)		3600	4000
Exhaust Gas Temperature °C (°F)	Standby	N/A	452 (846)	Weight (kg)		24000	36000
	Prime	N/A	435 (814)	Fuel Tank Capacity (L)		N/A	N/A

- Notes:
- 1- Prime Power is applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528.Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
 - 2-Standby power is applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.
 - 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