



PI Model	Hz/rpm*	Voltage	Prime	Standby
PI 38K	50/1500	400/230	35.1 KVA 28 KW	38.4 KVA 30.7 KW
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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		KUBOTA V3300-T-E2BG2		Alternator Make & Model		Stamford S1L2-K1	
No. of Cylinders		4 In-line		No. of Poles		4	
Cycle		4		WINDING LEADS		12	
Aspiration		Natural		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		22.6:1		Excitation System		Self-Excited	
Displacement (L)		3.318 L		AVR Model		AS540	
Bore/Stroke (mm)		98/110		Alternator operating Data			
Battery Charger, Ampere		12 Volts DC, 45 Amp		Overspeed (RPM)		2250	
Air System				Voltage Regulation		± 1 %	
Air Filter Type		Dry Element (replaceable)		Wave Form NEMA = TIF		<50	
Combustion Air Flow m ³ /min (cfm)	Standby	N.A.		Wave Form IEC = THF		<2%	
	Prime	3.35 (118.2)		Total Harmonic Content LL/LN		<5%	
Radiator Air Flowm ³ /min (cfm)		71.8 (2535)		Radio Interference		Standard EN61000-6-2:2001	
Cooling System				Cooling Air Flow m ³ /sec(cfm)		0.177 (375)	
Cooling System Capacity (L)		N.A.		Controller Technical Data			
Water Pump Type		Centrifugal Engine Driven		Controller Make & Model		DSE 4520 or Eq.	
Radiator Fan Load kW (hp)		N.A.		Operation mode		MRS / AMF(Optional)	
Heat Radiation to Room kW (BTU/min)	Standby	N.A.		Display		Graphic back-lit LCD (128x64)pixels	
	Prime	N.A.		Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system				Binary Inputs/Outputs		4 / 4	
Oil Filter Type		Spin on full flow filter		Analog inputs		3	
Total Oil Capacity I (US gal)		13.2 (3.48)		Measurement		Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		N.A.		Event Log		Alarms log, Hours log	
Oil Type		Class CF lubricating oil as per API		Communication (Optional)		USB port	
Cooling Method		Radiator cooling		Gen-set Enclosure Specification (optional)			
Fuel Filter Type		Spin on fuel filters with water separator		Enclosure Type		Acoustic and Weather Proof	
Recommended Fuel		Class A2 Diesel		Anticorrosive Protection		Polyester Powder Coated Galvanized Sheet	
Fuel Consumption: l/hr (US gal/hr)		Prime	Standby	Ingress Protection rating		Weather Proof IP23	
	110%	10.21 (2.65)	N.A.	Transportation		ISO standard lifting	
	100%	9.3 (2.41)	10.21 (2.65)	Noise level		67 dbA @ 7 meters	
	75%	5.1 (1.32)	N.A.	Emergency		External Emergency Push Botton	
50%	3.6 (0.93)	N.A.	Canopy RAL color		RAL 2000		
Exhaust System				Chassis RAL color		RAL 9011	
Silencer Size & Model		(2") Industrial		Dimensions		Open Type	Enclosure
Silencer Noise Reduction Level		11-15 dBA		Length (mm)	1600	2200	
Max. Back Pressure kPa (in. Hg)		10.7 (3.15)		Width (mm)	840	900	
Exhaust Gas Flow m ³ /min (cfm)	Standby	N.A.		Height (mm)	1100	1250	
	Prime	9.99 (352.7)		Weight (kg)	720	1020	
Exhaust Gas Temperature °C (°F)	Standby	N.A.		Fuel Tank Capacity (L)	46	46	
	Prime	500 (932)					

- 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