



PI Model	Hz/rpm*	Voltage	PRIME	STANDBY
-	-	-	-	-
PI 12K	60/1800	480V	10.6 KVA 8.4 KW	12 KVA 9.6 KW

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 D1105-E2BG	Alternator Make & Model	Stamford SOL1-L1
No. of Cylinders	3	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	24.0:1	Excitation System	Self-Excited
Displacement (L)	1.123 L	AVR Model	AS540
Bore/Stroke (mm)	78/78.4	Alternator operating Data	
Battery Charger, Ampere	12 Volts DC, 30 Amp	Overspeed (RPM)	2250
Air System		Voltage Regulation	± 1 %
Air Filter Type		Dry Element (replaceable)	Wave Form NEMA = TIF <50
Combustion Air Flow m³/min (cfm)	Standby	N.A.	Wave Form IEC = THF <2%
	Prime	0.88 (31)	Total Harmonic Content LL/LN <5%
Radiator Air Flow		N.A.	Radio Interference
Cooling System			Standard EN61000-6-2:2001
Cooling System Capacity (L)	N.A.	Cooling Air Flow m³/sec(cfm)	0.07 (148)
Pump Type	Centrifugal Engine Driven	Controller Technical Data	
Blower Fan Load kW (hp)	0.2 (0.26)	Controller Make & Model	DSE 4520 or Eq.
Heat Radiation to Room kW (BTU/min)	Standby	Operation mode	MRS / AMF(Optional)
	Prime	N.A.	Display
Lubrication system		Ingress Protection Rating	Graphic back-lit LCD (128x64)pixels
Oil Filter Type	Spin on full flow filter	Binary Inputs/Outputs	Sealed front face(IP65)
Total Oil Capacity I (US gal)	5.1 (1.34)	Analog inputs	4 / 4
Oil Pan I (US gal)	N.A.	Measurement	3
Oil Type	Class CF lubricating oil as per API	Event Log	Vac, A, Hz, kVA, kW, Vdc
Cooling Method	Radiator cooling	Communication (Optional)	Alarms log, Hours log
Fuel System		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
	110%	TBD	N.A.
	100%	TBD	N.A.
	75%	TBD	N.A.
50%	TBD	N.A.	N.A.
Exhaust System		Emergency	External Emergency Push Button
Silencer Size & Model	(2") Industrial	Canopy RAL color	RAL 2000
Silencer Noise Reduction Level	11-15 dBA	Chassis RAL color	RAL 9011
Max. Back Pressure kPa (in. Hg)	3.0 (0.88)	Dimensions	
Exhaust Gas Flow m³/min (cfm)	Standby	Length (mm)	1624
	Prime	Width (mm)	750
Exhaust Gas Temperature °C (°F)	Standby	Height (mm)	1220
	Prime	Weight (kg)	340
	N.A.	Fuel Tank Capacity (L)	97
	N.A.		114

- Notes:
- 1) Warranty: one year or (1000) hours which comes first.
 - 2) Continuous Power: No time limitation, plus 10% additional power for governing purpose only.
 - 3) Prime Power: Average power output ≤ 80%, no time limitation, plus 5% additional power for governing purpose only.
 - 4) Limited Time Running Power: For up to 500 h/year, thereof a maximum of 300 h/year continuous running.
 - 5) Referring to our company policy of continuous development, PI reserves the right to change specification without notice.

N.A. - Not Available