



PI Model	HZ/rpm*	Voltage	PRIME	STANDBY
PI 9K	50/1500	400/230	8.5KVA 6.8KWe	9.6KVA 7.6KWe
PI12K	60/1800	480/220	10.4kVA 8.3kWe	11.7kVA 9.3kWe

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-H1	
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 (Replacement Element)	Wave Form NEMA = TIF		<50	
Combustion Air Flow m³/min (cfm)	Standby	0.88 (31)	Wave Form IEC = THF		<2%	
	Prime	0.88 (31)	Total Harmonic Content LL/LN		<5%	
Radiator Air Flow		21.4 (755)	Radio Interference		Standard EN61000-6-2:2001	
Cooling System			Cooling Air Flow m³/sec(cfm)			0.058 (125)
Cooling System Capacity (L)		N.A.	Controller Technical Data			
Pump Type		Centrifugal Engine Driven	Controller Make & Model		DSE 4520 or Eq.	
Blower 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)		5.1 (1.34)	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, RS232, RS485, GSM, ETHERNET	
Cooling Method		Radiator cooling	Gen-set Enclosure Specification (optional)			
Fuel System			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	Transportation		ISO standard lifting
	110%	3.4 (0.89)	N.A.	Noise level		68 dbA @ 7 meters
	100%	3.09 (0.81)	3.4 (0.89)	Emergency		External Emergency Push Button
	75%	N.A.	N.A.	Canopy RAL color		RAL 2000
	50%	N.A.	N.A.	Chassis RAL color		RAL 9011
Exhaust System			Dimensions		Open Type	Enclosure
Silencer Size & Model		(2") Industrial	Length (mm)		1624	2212
Silencer Noise Reduction Level		11-15 dBA	Width (mm)		750	912
Max. Back Pressure kPa (in. Hg)		7.1 (0.88)	Height (mm)		1220	1402
Exhaust Gas Flow m³/min (cfm)	Standby	2.24 (79.1)	Weight (kg)		340	637
	Prime	2.24 (79.1)	Fuel Tank Capacity (L)		97	114
Exhaust Gas Temperature °C (°F)	Standby	500°C (932°F)				
	Prime	500°C (932°F)				

- 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
N/A - Not Applicable to this Engine
TBD - To Be Determined