



PI Model	Hz/rpm*	Voltage	Continuous	Prime	Standby
PI 13D	50/1500	400/230	12.4 kVA 9.92 kWe	12.4 kVA 9.92 kWe	13.1 kVA 10.4 kWe
-	-	-	-	-	-

Applicable Standard and References: ISO 8528-1; ISO 3046-1; BS 5514-1
 The above given ratings are at 0.8 power factor (PF)
 *Note: The Engine is not switchable for 50 & 60 Hz.

Engine Technical Data			Alternator Technical Data			
Engine Make & Model		Deutz F2L2011	Alternator Make & Model		Leroy Somer TAL 040 C	
No. of Cylinders		2	No. of Poles		4	
Cycle		4	WINDING LEADS		12	
Aspiration		Natural	No. of Bearings		Single	
Cooling Method		Air	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		19.0:1	Excitation System		SHUNT	
Displacement (L)		1.6 L	AVR Model		R120	
Bore/Stroke (mm)		94/112	Alternator operating Data			
Battery Charger, Ampere		12 Volts DC, 60 Amp	Overspeed (RPM)		2250	
Air System			Voltage Regulation		± 1 %	
Air Filter Type		Dry Element (replaceable)	Wave Form NEMA = TIF		<100	
Combustion Air Flow m³/min (cfm)	Standby	N.A	Wave Form IEC = THF		<3.5%	
	Prime	2.28 (80.51)	Total Harmonic Content LL/LN		<5%	
Radiator Air Flow m³/min (cfm)		24.8 (875.8)	Radio Interference		Standard EN61000-6-2:2001	
Cooling System			Cooling Air Flow m³/sec(cfm)		0.06 (127)	
Cooling System Capacity (L)		N.A.	Controller Technical Data			
Pump Type		Centrifugal Engine Driven	Controller Make & Model		ComAp - AMF9	
Blower Fan Load kW (hp)		0.2 (0.26)	Operation mode		MRS / AMF(Optional)	
Heat Radiation to Room kW (BTU/min)	Standby	N.A	Display		Graphic back-lit LCD (128x64)pixels	
	Prime	5 (284.3)	Ingress Protection Rating		Sealed front face(IP65)	
Lubrication system			Binary Inputs/Outputs		4 / 6	
Oil Filter Type		Spin on full flow filter	Analog inputs		3	
Total Oil Capacity I (US gal)		10 (2.64)	Measurement		Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		N.A	Event Log		Alarms log, Hours log	
Oil Type		TRO 199-99-1217	Communication (Optional)		USB, RS232, RS485, GSM, ETHERNET	
Cooling Method		N.A	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%	N.A	N.A	Transportation		ISO standard lifting
	100%	7.5 (1.98)	N.A	Noise level		65 dbA @ 7 meters
	75%	5.7 (1.50)	N.A	Emergency		External Emergency Push Botton
50%	4.2 (1.10)	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)		-	-
Max. Back Pressure kPa (in. Hg)		3.0 (0.88)	Width (mm)		-	-
Exhaust Gas Flow L/s (cfm)	Standby	N.A	Height (mm)		-	-
	Prime	111.1 (235.5)	Weight (kg)		-	-
Exhaust Gas Temperature °C (°F)	Standby	N.A	Fuel Tank Capacity (L)		-	-
	Prime	510 (950)				

- 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