



PI Model	Hz/rpm*	Voltage	Continuous	Prime	Standby
PI 22D	50/1500	400/230	20.2 kVA 16.1 kWe	21.3 kVA 17.0 kWe	22.2 kVA 17.7 kWe
PI 25D	60/1800	480/220	14.2 kVA 11.3 kWe	14.9 kVA 11.9 kWe	25.1 kVA 20 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)

Engine Technical Data				Alternator Technical Data			
Engine Make & Model		Deutz F3M2011		Alternator Make & Model		Leroy Somer TAL 040F	
No. of Cylinders		3 In-line		No. of Poles		4	
Cycle		4		WINDING LEADS		12	
Aspiration		Natural		No. of Bearings		Single	
Cooling Method		Oil		Insulation Class/ Temp Rise		Class H /163 ⁰ K-27 ⁰ C	
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)		2.3 L		AVR Model		R120	
Bore/Stroke (mm)		94/112		Alternator operating Data			
Battery Charger, Ampere		12 Volts DC, 55 Amp		Overspeed (RPM)		2250	
Air System				Voltage Regulation			
Air Filter Type		Dry Element (replaceable)		Wave Form NEMA = TIF			
Combustion Air Flow		N.A		Wave Form IEC = THF			
m ³ /min (cfm)		Prime		Total Harmonic Content LL/LN			
Radiator Air Flow ³ /min (cfm)		30.0 (1059)		Radio Interference			
Cooling System		50Hz		60Hz		Cooling Air Flow m ³ /sec(cfm)	
Cooling System Capacity (L)		9		Standard EN61000-6-2:2001			
Water Pump Type				Controller Technical Data			
Water Pump Type		Centrifugal Engine Driven		Controller Make & Model		DSE 6120 or Eq.	
Radiator Fan Load kW (hp)		0.1 (0.13)		Operation mode		Auto Main Failure (AMF)	
Heat Radiation to Room		Standby		Display		large back-lit LCD display	
kW (BTU/min)		N.A		Ingress Protection Rating		Sealed front face(IP65)	
Prime		2.7 (153.5)		Binary Inputs/Outputs		4 / 6	
Cooling Method		N.A		Analog inputs		4	
Lubrication system				Measurement			
Oil Filter Type		Spin on full flow filter		Event Log			
Total Oil Capacity I (US gal)		5.5 (1.45)		Alarms log, Hours log			
Oil Pan I (US gal)		N.A		Communication (Optional)			
Oil Type		TRO 199-99-1217		USB, RS232, RS485, GSM, ETHERNET			
Cooling Method		N.A		Gen-set Enclosure Specification (optional)			
Fuel System				Enclosure Type			
Fuel Filter Type		Spin on fuel filters with water separator		Acoustic and Weather Proof			
Recommended Fuel		Class A2 Diesel		Anticorrosive Protection			
Fuel Consumption:		Prime		Standby		Ingress Protection rating	
I/hr (US gal/hr)		N.A		N.A		Weather Proof IP23	
110%		N.A		N.A		Transportation	
100%		5.8 (1.45)		N.A		ISO standard lifting	
75%		4.2 (1.05)		N.A		Noise level	
50%		2.9 (0.73)		N.A		66 dbA @ 7 meters	
Exhaust System		50Hz		60Hz		Emergency	
Silencer Size & Model		(2") Industrial		External Emergency Push Botton			
Silencer Noise Reduction Level		11-15 dBA		Canopy RAL color			
Max. Back Pressure kPa (in. Hg)		3.0 (0.88)		RAL 2000			
Exhaust Gas Flow		N.A		N.A		Chassis RAL color	
L/s (cfm)		Standby		Standby		RAL 9011	
Exhaust Gas		65.5 (138.7)		86.6 (248.7)		Dimensions	
Temperature °C (°F)		N.A		N.A		Length (mm)	
Prime		611 (1130)		580 (968)		Open Type	
Fuel Tank Capacity (L)		204		210		Enclosure	
		900		1660			
		617		617			
		210		210			

- 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) The above rating is based on ISO 8528-5 standard ambient condition. Deration is applicable for higher temperature; Contact PI.
 - 6) 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