



PI Model	Hz/rpm	Voltage	Continuous	Prime	Standby
PI 511D	50/1500	400/230	419 kVA 335.2 kWe	467 kVA 473.6 kWe	511 kVA 408 kWe
PI 507D	60/1800	480/220	401 kVA 320 kWe	459 kVA 367.2 kWe	507 kVA 405 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 BF8M1015C-G2		Alternator Make & Model		Leroy Somer TAL 047 C			
No. of Cylinders		8 V		No. of Poles		4			
Cycle		4		WINDING LEADS		12			
Aspiration		Turbocharged, Charged Air Cooled		No. of Bearings		Single			
Cooling Method		Water		Insulation Class/ Temp Rise		Class H /163 <sup>0</sup> K-27 <sup>0</sup> C			
Governing Type		Electronic		Winding Pitch		TWO THIRDS			
Governing Class		ISO 8528 Part 1 G2		Ingress Protection Rating		IP-23			
Compression Ratio		16.5:1		Excitation System		SHUNT			
Displacement (L)		15.9		AVR Model		R150			
Bore/Stroke (mm)		132/145		<b>Alternator operating Data</b>					
Battery Charger, Ampere		24 Volts DC, 55 Amp		Overspeed (RPM)		2250			
<b>Air System</b>				Voltage Regulation					
Air Filter Type		Dry Element (replaceable)		Wave Form NEMA = TIF					
Combustion Air Flow m <sup>3</sup> /min (cfm)		Standby		N.A		N.A			
		Prime		29 (1045)		29 (1045)			
Radiator Air Flow		552 (19493)		552 (19493)		Total Harmonic Content LL/LN			
<b>Cooling System</b>				Radio Interference					
Cooling System Capacity (L)		102		Cooling Air Flow m <sup>3</sup> /sec(cfm)		0.9 (1906.9)   N.A			
Water Pump Type		Centrifugal Engine Driven		<b>Controller Technical Data</b>					
Radiator Fan Load kW (hp)		15.4 (18.8)   15.6 (20.8)		Controller Make & Model		DSE 6120 or Eq.			
Heat Radiation to Room kW (BTU/min)		Standby		N.A		N.A			
		Prime		40 (2274)		37 (2104)			
<b>Lubrication system</b>				Operation mode					
Oil Filter Type		Spin on full flow filter		Display		large back-lit LCD display			
Total Oil Capacity I (US gal)		43 (11.0)		Ingress Protection Rating					
Oil Pan I (US gal)		N.A		Sealed front face(IP65)					
Oil Type		TRO 199-99-1217		Binary Inputs/Outputs					
Cooling Method		WATER		4 / 6					
<b>Fuel System</b>				Analog inputs					
Fuel Filter Type		Spin on fuel filters with water separator		Measurement					
Recommended Fuel		Class A2 Diesel		Vac, A, Hz, kVA, kW, Vdc, kV Ar, pf					
Fuel Consumption: l/hr (US gal/hr)		Prime		N.A		N.A			
		Standby		N.A		N.A			
		110%		102(26.9)		107(28.2)		N.A	
		100%		75(19.8)		78(20.6)		N.A	
75%		50(13.2)		N.A		53(14.2)		N.A	
50%		N.A		N.A		N.A		N.A	
<b>Exhaust System</b>				Event Log					
Silencer Size & Model		(5") Industrial		Alarms log, Hours log					
Silencer Noise Reduction Level		11-15 dBA		Communication (Optional)					
Max. Back Pressure kPa (in. Hg)		5.0 (1.47)		USB, RS232, RS485, GSM, ETHERNET					
Exhaust Gas Flow L/s (cfm)		Standby		N.A		N.A			
		Prime		1669 (3538)		1471 (3103)			
Exhaust Gas Temperature °C (°F)		Standby		N.A		N.A			
		Prime		560 (1004)		510 (950)			
<b>Gen-set Enclosure Specification (optional)</b>				<b>Dimensions</b>					
Enclosure Type		Acoustic and Weather Proof		Length (mm)		2989			
Anticorrosive Protection		Polyester Powder Coated Galvanized Sheet		Width (mm)		1765			
Ingress Protection rating		Weather Proof IP23		Height (mm)		2250			
Transportation		ISO standard lifting		Weight (kg)		3573			
Noise level		75 dbA @ 7 meters		Fuel Tank Capacity (L)		1300			
Emergency		External Emergency Push Botton							
Canopy RAL color		RAL 2000							
Chassis RAL color		RAL 9011							

- 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 conditions. 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