



PI Model	Hz/rpm*	Voltage	PRIME	STANDBY
-	-	-	-	-
PI 19K	60/1800	480V	16.1 KVA 12.8 KW	19.4 KVA 15.4 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 1703-E2BG		Alternator Make & Model	Leroy Somer LSA 40S3	
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		23.0:1		Excitation System	SHUNT	
Displacement (L)		1.647 L		AVR Model	R220	
Bore/Stroke (mm)		87/92.4		<b>Alternator operating Data</b>		
Battery Charger, Ampere		12 Volts DC, 64 Amp		Overspeed (RPM)	2250	
<b>Air System</b>				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	1.08 (38.5)		Total Harmonic Content LL/LN	<5%	
Radiator Air Flow		TBD		Radio Interference	Standard EN61000-6-2:2001	
<b>Cooling System</b>				Cooling Air Flow m³/sec(cfm)	0.072 (127)	
Cooling System Capacity (L)		N.A.		<b>Controller Technical Data</b>		
Pump Type		Centrifugal Engine Driven		Controller Make & Model	ComAp - AMF9	
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	TBD		Ingress Protection Rating	Sealed front face(IP65)	
<b>Lubrication system</b>				Binary Inputs/Outputs	4 / 6	
Oil Filter Type		Spin on full flow filter		Analog inputs	3	
Total Oil Capacity I (US gal)		7.6 (2)		Measurement	Vac, A, Hz, kVA, kW, Vdc	
Oil Pan I (US gal)		N.A.		Event Log	Alarms log, Hours log	
Oil Type		Above CD grade		Communication (Optional)	USB, RS232, RS485, GSM, ETHERNET	
Cooling Method		Radiator cooling				
<b>Fuel System</b>				<b>Gen-set Enclosure Specification (optional)</b>		
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%	4 (1.0)	N.A.	Noise level	65 dbA @ 7 meters	
	75%	3.2 (0.83)	N.A.	Emergency	External Emergency Push Botton	
	50%	2.5 (0.65)	N.A.	Canopy RAL color	RAL 2000	
<b>Exhaust System</b>				Chassis RAL color	RAL 9011	
Silencer Size & Model		(2") Industrial		<b>Dimensions</b>	<b>Open Type</b>	<b>Enclosure</b>
Silencer Noise Reduction Level		11-15 dBA				
Max. Back Pressure kPa (in. Hg)		≤ 7.07 (53)		Length (mm)	-	-
Exhaust Gas Flow m³/min (cfm)	Standby	N.A.		Width (mm)	-	-
	Prime	2.91 (103.9)		Height (mm)	-	-
Exhaust Gas Temperature °C (°F)	Standby	N.A.		Weight (kg)	-	-
	Prime	N.A.		Fuel Tank Capacity (L)	-	-

- 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