PRECISION INDUSTRIES®

LIGHTING THE WORLD

PI Model	Hz/rpm*	Voltage	Prime	Standby
-	-	-	- -	- -
PI 48K	**60/1800**	**480V**	**44.1 KVA** **35.2 KW**	**48.4 KVA** **38.7 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		
Engine Make & Model		**KUBOTA V3300-T-E2BG**
No. of Cylinders		4 In-line
Cycle		4
Aspiration		Natural
Cooling Method		Water
Governing Type		Mechanical
Governing Class		ISO 8528 Part 1 G2
Compression Ratio		22.6:1
Displacement (L)		3.318 L
Bore/Stroke (mm)		98/110
Battery Charger, Ampere		12 Volts DC, 45 Amp
Air System		
Air Filter Type		Dry Element (replaceable)
Combustion Air Flow m³/min (cfm)	**Standby**	N.A.
	Prime	2.99 (106.7)
Radiator Air Flow		N.A.
Cooling System		
Cooling System Capacity (L)		N.A.
Water Pump Type		Centrifugal Engine Driven
Radiator Fan Load kW (hp)		N.A.
Heat Radiation to Room kW (BTU/min)	**Standby**	N.A.
	Prime	N.A.
Lubrication system		
Oil Filter Type		Spin on full flow filter
Total Oil Capacity l (US gal)		13.2 (3.48)
Oil Pan l (US gal)		N.A.
Oil Type		Class CF lubricating oil as per API
Cooling Method		Radiator cooling
Fuel System		
Fuel Filter Type		Spin on fuel filters with water separator
Recommended Fuel		Class A2 Diesel

Fuel Consumption: l/hr (US gal/hr)	**Prime**	**Standby**
110%	N.A.	N.A.
100%	6.9 (1.76)	N.A.
75%	5.1 (1.32)	N.A.
50%	3.6 (0.93)	N.A.

Exhaust System		
Silencer Size & Model		(2") Industrial
Silencer Noise Reduction Level		11-15 dBA
Max. Back Pressure kPa (in. Hg)		≦ 7.07 （53）
Exhaust Gas Flow m³/min (cfm)	**Standby**	N.A.
	Prime	10.21 (364.6)
Exhaust Gas Temperature °C (°F)	**Standby**	N.A.
	Prime	N.A.

Alternator Technical Data	
Alternator Make & Model	**Leroy Somer LSA 42.3S5**
No. of Poles	4
WINDING LEADS	12
No. of Bearings	Single
Insulation Class	Class H
Winding Pitch	TWO THIRDS
Ingress Protection Rating	IP-23
Excitation System	SHUNT
AVR Model	R220
Alternator operating Data	
Overspeed (RPM)	2250
Voltage Regulation	± 0.5 %
Wave Form NEMA = TIF	<50
Wave Form IEC = THF	<3.5%
Total Harmonic Content LL/LN	<5%
Radio Interference	Standard EN61000-6-2:2001
Cooling Air Flow m³/sec(cfm)	0.13 (127)
Controller Technical Data	
Controller Make & Model	ComAp - AMF9
Operation mode	MRS / AMF(Optional)
Display	Graphic back-lit LCD (128x64)pixels
Ingress Protection Rating	Sealed front face(IP65)
Binary Inputs/Outputs	4 / 6
Analog inputs	3
Measurement	Vac, A, Hz, kVA, kW, Vdc
Event Log	Alarms log, Hours log
Communication (Optional)	USB, RS232, RS485, GSM, ETHERNET
Gen-set Enclosure Specification (optional)	
Enclosure Type	Acoustic and Weather Proof
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet
Ingress Protection rating	Weather Proof IP23
Transportation	ISO standard lifting
Noise level	65 dbA @ 7 meters
Emergency	External Emergency Push Botton
Canopy RAL color	RAL 2000
Chassis RAL color	RAL 9011

Dimensions	**Open Type**	**Enclosure**
Length (mm)	**1600**	**2200**
Width (mm)	**840**	**900**
Height (mm)	**1100**	**1250**
Weight (kg)	**720**	**1020**
Fuel Tank Capacity (L)	**48**	**48**

Notes:

1-Prime power rating of generating set is a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation

2-Standby power rating of the generating set is a variable load limited to an annual usage upto 500 hours is applied, with 300 hours ff which may be continuous running. Noting that no overload is is permitted.

3- Warranty: one year or (1000) hours which comes first.

4- 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

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