



# PRECISION INDUSTRIES®

PI 88P/50Hz THE POWER OF DUBAI  
PI 100.3P/60Hz

Output Power Ratings			Prime*		Standby**	
rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	80	64	88	70.4
1800	60Hz	480	91.3	73	100.3	80.3

The above KW ratings are at 0.8 pf

Guaranteed within conditions equivalent to those specified in ISO 8528-1, ISO 3046-1 and BS 5514-1.

Engine Technical Data	
Engine Make and Model	Perkins 1104A-44TG2
Cylinders	4 Vertical In-Line
Aspiration	Turbo Charged
Combustion System	Direct Injection
Displacement	4.4liters
Governor	Mechanical(Optional Electronic)
Emissions Regulations	TA luft
Electrical Starting System	12 Volt Starter Motor And 12 Volt 65 Amp Alternator With DC Output

Air Systems			
Air Filter Type	Dry Element(Replaceable)		
Combustion Air Flow m <sup>3</sup> /min (cfm)	Prime	50 Hz	60 Hz
	Standby	4.80 (169.5)	6.2 (218.9)
		4.5 (158.5)	6.5 (229.5)
Maximum Air Filter Intake Restriction	8.0kPa	8.0kPa	

Fuel System			
Fuel Filter Type	Ecoplus(Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr (US gal/hr)	Engine Speed	1500 rpm	1800 rpm
	Standby	5.42 (20.5)	6.45 (24.4)
	Prime Power	4.94 (18.7)	5.89 (22.3)
	%75 of Prime Power	3.70 (14.0)	4.46 (16.9)
	%50 of Prime Power	2.56 (9.70)	3.14 (11.9)
Fuel Tank Capacity: Open / Close	224 L / 224 L		

Lubrication System	
Lube Oil	API –CG4/CH4 SAE 15W40 (-*10 C to *50 C Ambient Temperature)
Lube Oil Capacity	8.0 L
Oil Pan	7.0 L
Oil Filter Type	Spin-On(Replaceable)
Oil Cooling Method	Water

Cooling System			
Coolant Capacity	13.0 L		
Cooling System	Mounted Radiator, Water Cooled		
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	Prime	3143.0 (89.0)	3919.9 (111.0)
	Standby	50 Hz	60 Hz
Heat Radiation to Room	Prime	13.0 Kw	14.0 Kw
	Standby	14.0 Kw	15.0 Kw

Exhaust System			
Silencer	Grade	Industrial	
	Size	3"	
	Qty	1	
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime	12.5 (441.4)	15.0 (529.7)
	Standby	13.3 (469.6)	15.85 (559.7)
Maximum Allowable Backpressure		10 kPa	15 kPa
Exhaust Gas Maximum Temp	Prime	555°C	535°C
	Standby	580°C	560°C

Alternator Technical Data		Stamford							
Model Number		UC224G							
No. of Poles		4							
Number of Terminals (Leads)		12							
A.V.R. & Excitation		AS460							
Regulation		±1.0%							
Ingress Protection		IP-23							
Insulation Class		H							
TIF		<50							
THD at Full Load %		<5%							
THD at No Load %		<1.5%							
Cooling Air Flow- @ 50 Hz m <sup>3</sup> /min (cfm)		12.96 (458)							
Cooling Air Flow- @ 60 Hz m <sup>3</sup> /min (cfm)		16.86 (595)							
Output Voltages		50Hz				60Hz			
	V	380	400	415	440	415	440	460	480
kVA		90.8	90.8	90.8	80.1	95	102	102	102
kW		72.6	72.6	72.6	64.1	76	81.6	81.6	81.6



Made in UAE



ISO 9001 : 2008 Certified

