



PRECISION INDUSTRIES®

PI 900P/50Hz THE POWER OF DUBAI
PI 938P/60Hz

Output Power Ratings			Prime*		Standby**	
rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	800	640	900	720
1800	60Hz	480	844	675	938	750

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 4006-23TAG3A
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged Air-to-Air Charge Cooled
Combustion System	Direct Injection
Displacement	22.921 liters
Governor	Electronic
Emissions Regulations	½ TA luft
Electrical Starting System	24 Volt Starter Motor And 24 Volt 70 Amp Battery Charging Alternator

Air Systems		
Air Filter Type	Dry-Paper (Replaceable)	
Combustion Air Flow m ³ /min (cfm)	50 Hz	60 Hz
	Prime Standby	2436.71) 69) 2577.97) 73)
Maximum Air Filter Intake Restriction	3.7 kPa	3.7 kPa

Fuel System			
Fuel Filter Type	Changeover (Optional)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption l/hr (US gal/hr)	Engine speed	1500 rpm	1800 rpm
	Standby	51.2) 194)	59.2) 224)
	Prime Power	45.4) 172)	52.8) 200)
	%75 of Prime Power	34.3) 130)	38.0) 144)
	%50 of Prime Power	23.8) 90)	96 (25.4)
Fuel Tank Capacity: Open / Close	1630 L / 1800 L		

Lubrication System	
Lube Oil	API-CG4, SAE 15W-40 (-*10 C to *50 C Ambient Temperature)
Lube Oil Capacity	113.4 L
Oil Pan	90.7 L
Oil Filter Type	Changeover (Optional)
Oil Cooling Method	Water

Cooling System			
Coolant Capacity	105 L		
Cooling System	Mounted Radiator, Water Cooled		
Cooling Fan Air Flow m ³ /min (cfm)	42377.6) 1200)	46615.3) 1320)	
	50 Hz	60 Hz	
Heat Radiation to Room	Prime	77 kW	80kW
	Standby	86kW	90 kW

Exhaust System			
Silencer	Grade	Industrial	
	Size	6"	
	Qty	2	
Exhaust Gas Flow m ³ /min (cfm)	Prime	6815.73) 193)	7380.76) 209)
	Standby	6815.73) 193)	7380.76) 209)
Maximum Allowable Backpressure	6 kPa	6 kPa	
Exhaust Gas Maximum Temp	50 Hz	60 Hz	
	Prime	50°C	50°C
	Standby	50°C	50°C

Alternator Technical Data		Stamford							
Model Number	HCI 634G								
No. of Poles	4								
Number of Terminals (Leads)	6								
A.V.R. & Excitation	MX321 (PMG)								
Regulation	±0.5%								
Ingress Protection	IP-23								
Insulation Class	H								
Total Harmonic TGH / THC	<2%								
TIF	<50								
Cooling Air Flow- @ 50 Hz m ³ /min (cfm)	3420) 96.84)								
Cooling Air Flow- @ 60 Hz m ³ /min (cfm)	4156) 117.66)								
Output Voltages	50Hz				60Hz				
	V	380	400	415	440	416	440	460	480
kVA	910	910	910	875	1025	1063	1075	1125	
Kw	728	728	728	700	820	850	860	900	



Made in UAE



ISO 9001 : 2008 Certified



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Controller Features	Deep Sea 4520 or Eq.
Controller Make and Model	Auto Mains Failure (AMF) applications including remote communication , User configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wires / 3 ph 3 wires / Mono ph
Engine Protections	<ul style="list-style-type: none"> Oil pressure Coolant temperature Fuel level (Optional) Coolant level (Optional)
Generator Protections	<ul style="list-style-type: none"> Over / Under voltage Over/Under frequency Phases Sequence Over current Charging Alternator Fault
Inputs and Outputs	<ul style="list-style-type: none"> 3 No's Configurable analog inputs 4 No's binary inputs 6 No's binary outputs D + Pre-Excitation terminal
Event and Performance Log	<ul style="list-style-type: none"> Gen-set text alarm log For More Features We Can Use Higher Controller Engine hours history log

Genset Enclosure Specification (optional)	
Enclosure Type	Acoustic and Weather Proof
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet
Access Doors	6
Drainage	Fuel & Water Drainage Provision
Transportation	Tested Double Point Lifting Facility & Forklift Pockets
Noise Level (@Free-Field Conditions)	77 dBA @ 7 meter
Water Fill	Radiator Water Filling Provision
Cable Access	Cable Inlet and Outlet Provision
Emergency Stop	External Emergency Push Button
Canopy RAL Color	RAL 2000
Chassis RAL Color	RAL 9011

Shipping Data				
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	4520	2000	2450	5393
Enclosed	5965	2065	3110	7330

Notes:

*Prime power rating of the generating set is where 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

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

All generators carry a one year or (1000) hours' manufacturer's warranty

In line with our policy of continuous development, PI reserves the right to change specification without notice

PRECISION
INDUSTRIES®

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GPS: 25° 7' 50" N , 55° 14' 53" E



GENSETS