



PRECISION INDUSTRIES®

PI 1093P/50Hz THE POWER OF DUBAI
PI 1097/60Hz

Output Power Ratings			Prime*		Standby**	
rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	1022	818	1093	874
1800	60Hz	480	995	796	1097	878

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 4008TAG2A (50 Hz), 4008TAG60) 2Hz)
Cylinders	8 Vertical In-Line
Aspiration	Turbocharged Air- to- Air Charge Cooled
Combustion System	Direct Injection
Displacement	30.56liters
Governor	Electronic
Emissions Regulations	TA Luft
Electrical Starting System	24 Volt Starter Motor and 24 Volt/40 Amp Alternator With Integral Regulator and Dc Output

Air Systems	
Air Filter Type	Cylinder Paper Pleat
Combustion Air Flow m ³ /min (cfm)	50 Hz
	60 Hz
Prime Standby	2648.6) 75.0)
	2842.8) 80.5)
Maximum Air Filter Intake Restriction	3.7 kPa

Fuel System	
Fuel Filter Type	Full-Flow Spin-On
Recommended Fuel	Class A2 Diesel
Fuel Consumption l/hr (US gal/hr)	Engine speed
	1500 rpm
Prime Standby	75.6) 286)
	59.7) 226)
%75 of Prime Power	43.1) 163)
	28.8) 109)
Fuel Tank Capacity: Open / Close	Nil / Nil

Lubrication System	
Lube Oil	API-CG4, SAE 15W-40 (-10 C to 50 C Ambient Temperature)
Lube Oil Capacity	153 L
Oil Pan	127 L
Oil Filter Type	Full-Flow Spin-On
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	149 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m ³ /min (cfm)	47674.8) 1350)
Heat Radiation to Room	50 Hz
	60 Hz
Prime Standby	80 kW
	100 kW

Exhaust System	
Silencer	Grade
	Industrial
	Size
Exhaust Gas Flow m ³ /min (cfm)	Qty
	2
Maximum Allowable Backpressure	Prime
	Standby
Exhaust Gas Maximum Temp	7062.9) 200)
	7133.5) 202)
Prime Standby	8 kPa
	6.69 kPa
50 Hz	50 Hz
	60 Hz
*438C	*438C
	*505C
*465C	*465C
	*505C

Alternator Technical Data		Stamford							
Model Number	HCI 634J								
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 distortion	< 2%								
TIF	<50								
Cooling Air Flow-@50 Hz m ³ /min(cfm)	96.84 (3420)								
Cooling Air Flow-@60 Hz m ³ /min(cfm)	117.6 (4156)								
Output Voltages	50Hz					60Hz			
	V	380	400	415	440	416	440	460	480
kVA	1000	1000	1000	1000	1150	1200	1250	1300	
Kw	800	800	800	800	920	960	1000	1040	
Alternator Performance Data									



Made in UAE



ISO 9001 : 2008 Certified



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Controller Features	ComAp – AMF9 / DSE (Optional)
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	20' Container (Acoustic & Weather Proof)
Anticorrosive Protection	High Quality Spray Painted
Access Doors	4
Drainage	Fuel & Water Drainage Provision
Transportation	ISO Standard Lifting Facility & Forklift Pockets
Noise Level (@ Free-Field Conditions)	78 dBA @ 7 meter
Water Fill	Radiator Water Filling Provision With Customized Hinge Door
Cable Access	Cable Inlet and Outlet Provision
Emergency Stop	External Emergency Push Button
Canopy RAL Color	As per Customer Requirement
Chassis RAL Color	As per Customer Requirement

Shipping Data				
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	4650	2050	2520	8000
Enclosed	20 feet ISO HQ Container			10900

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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GENSETS