



PRECISION INDUSTRIES®

PI 1880P/50Hz THE POWER OF DUBAI
PI 1880P/60Hz

Output Power Ratings			Prime*		Standby**	
rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	1710	1368	1880	1504
1800	60Hz	480	1710	1368	1880	1504

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 4012-46TAG3A
Cylinders	60 ,12°Vee Form
Aspiration	Turbocharged Air- to- Air Charge Cooled
Combustion System	Direct Injection
Displacement	45.842liters
Governor	Electronic
Emissions Regulations	½ TA Luft
Electrical Starting System	24 Volt Starter Motor And 24 Volt Alternator Integral Regulator And DC Output

Air Systems	
Air Filter Type	Paper Element (Replaceable)
Combustion Air Flow m ³ /min (cfm)	Prime Standby
	50 Hz 4237.76) 120)
	60 Hz 4520.27) 128)
Maximum Air Filter Intake Restriction	4.0 kPa

Fuel System	
Fuel Filter Type	Full-Flow Spin-On (Replaceable)
Recommended Fuel	Class A2 Diesel
Fuel Consumption l/hr (US gal/hr)	Engine Speed
	1500 rpm
	Standby
	405 (107)
	Prime Power
	370 (97.74)
	%75 of Prime Power
	275 (72.65)
	%50 of Prime Power
	187 (49.40)
Fuel Tank Capacity: Open / Close	Nil/ Nil

Lubrication System	
Lube Oil	API CH4 , SAE 15W-40 (-°10 C to °50 C Ambient Temperature)
Lube Oil Capacity	177 L
Oil Pan	159 L
Oil Filter Type	Full-Flow Spin-On (Replaceable)
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	210 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m ³ /min (cfm)	Prime Standby
	116640) 1944)
	50 Hz
	60 Hz
Heat Radiation to Room	Prime Standby
	96 kW
	107kW

Exhaust System		
Silencer	Grade	Industrial
	Size	10"
	Qty	2
Exhaust Gas Flow m ³ /min (cfm)	Prime	19200) 320)
	Standby	19200) 320)
Maximum Allowable Backpressure		5 kPa
Exhaust Gas Maximum Temp	Prime	50 Hz
	Standby	60 Hz
		455°C
		455°C

Alternator Technical Data		Stamford							
Model Number		PI 734E							
No. of Poles		4							
Number of Terminals (Leads)		6							
A.V.R. & Excitation		MX341 / MX321							
Regulation		±%1 / ±0.5%							
Ingress Protection		IP-23							
Insulation Class		H							
Total Harmonic Distortion		<2%							
TIF		<50							
Cooling Air Flow- @ 50 Hz m ³ /min (cfm)		161.4 (5700)							
Cooling Air Flow- @ 60 Hz m ³ /min (cfm)		207 (7300)							
Output Voltages		50Hz				60Hz			
	V	380	400	415	440	416	440	460	480
kVA		1845	1900	1900	1865	2070	2210	2255	2300
Kw		1476	1520	1520	1492	1656	1768	1804	1840
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	40' Container (Acoustic & Weather Proof)
Anticorrosive Protection	High Quality Spray Painted
Access Doors	6
Drainage	Fuel & Water Drainage Provision
Transportation	ISO Standard Lifting Facility & Forklift Pockets
Noise Level (@Free-Field Conditions)	80 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	5100	2162	2875	11500
Enclosed	9000	2350	3850	18500

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