



PRECISION INDUSTRIES®

PI 400P/50Hz THE POWER OF DUBAI
PI 438P/60Hz

Output Power Ratings			Prime*		Standby**		
rpm	Frequency	Voltage	Kva	kW	Kva	kW	
1500	50Hz	400	350	280	400	320	
1800	60Hz	480	400	320	438	350	

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 2206A-E13TAG2
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged and Air-To-Air Charge Cooled
Combustion System	Direct Injection
Displacement	12.5liters
Governor	Electronic
Emissions Regulations	Non-Compliant
Electrical Starting System	24 Volt Starter Motor And 24 Volt 70 Amp Alternator With DC Output

Air Systems		
Air Filter Type	Paper Element (Replaceable)	
Combustion Air Flow m ³ /min (cfm)	50 Hz	60 Hz
	Prime	27.4 (967.62)
	Standby	29.0 (1024.12)
Maximum Air Filter Intake Restriction	6.4 kPa	6.4 kPa

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	80 (21.1)	87 (23.0)
	Prime Power	71 (18.8)	81 (21.4)
	%75 of Prime Power	54 (14.3)	62 (16.4)
	%50 of Prime Power	37 (9.80)	43 (11.4)
Fuel Tank Capacity: Open / Close	690 L / 690 L		

Lubrication System	
Lube Oil	API-C14,SAE 15W-40 (-°10 C to °50 C Ambient Temperature)
Lube Oil Capacity	40 L
Oil Pan	38 L
Oil Filter Type	Full-Flow Ecoplus (Replaceable)
Oil Cooling Method	Water

Cooling System		
Coolant Capacity	51.4 L	
Cooling System	Mounted Radiator, Water Cooled	
Cooling Fan Air Flow m ³ /min (cfm)	654 (23095.79)	788 (27827.96)
	50 Hz	60 Hz
	Prime	40.3kW
Heat Radiation to Room	Standby	49.5kW

Exhaust System			
Silencer	Grade	Industrial	
	Size	6"	
	Qty	1	
Exhaust Gas Flow m ³ /min (cfm)	Prime	56.6 (1998.81)	67.5 (2383.74)
	Standby	64.8 (2288.39)	73.5 (2595.62)
	Maximum Allowable Backpressure	10 kPa	10 kPa
Exhaust Gas Maximum Temp	50 Hz	60 Hz	
	Prime	630°C	
	Standby	660°C	

Alternator Technical Data		Stamford							
Model Number	HCI444E								
No. of Poles	4								
Number of Terminals (Leads)	12								
A.V.R. & Excitation	AS 440								
Regulation	±1.0 %								
Ingress Protection	IP-23								
Insulation Class	H								
TIF	<50								
THD at Full Load %	<5%								
THD at Full Load %	<1.5%								
Cooling Air Flow- @ 50 Hz m ³ /min (cfm)	48.00 (1700)								
Cooling Air Flow- @ 60 Hz m ³ /min (cfm)	59.40 (2100)								
Output Voltages	50Hz				60Hz				
	V	380	400	415	440	415	440	460	480
	kVA	380	400	380	380	435	455	475	475
	Kw	304	320	304	304	348	364	380	380



Made in UAE



ISO 9001 : 2008 Certified



THE POWER OF DUBAI

PI 400P/50Hz

PI 438P/60Hz

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
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)	75 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	3515	1250	2204	3022
Enclosed	5012	1670	2447	3816

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®

Dubai | Abu Dhabi | Qatar | Oman | CIS Countries

Head Office Dubai | Tel: +971 4 338 4033 | Fax: +971 4 338 3997
Abu Dhabi | Tel: +971 2 645 0107 | Fax: +971 2 645 0167
Qatar | sales.qatar@pi-dubai.com
Oman | sales.oman@pi-dubai.com

info@pi-dubai.com | www.pi-dubai.com

GPS: 25° 7' 50" N , 55° 14' 53" E



GENSETS