



# PRECISION INDUSTRIES®

PI 330P/50Hz THE POWER OF DUBAI  
PI 375P/60Hz

Output Power Ratings			Prime*		Standby**		
Rpm	Frequency	Voltage	Kva	kW	Kva	kW	
1500	50Hz	400	300	240	330	264	
1800	60Hz	480	338	270	375	300	

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 1506A-E88TAG5
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged Air-to-Air Charge Cooled
Combustion System	Direct Injection
Displacement	9.3liters
Governor	Electronic
Emissions Regulations	Non-Compliant
Electrical Starting System	24 V Starter Motor And 24 V 45 Amp Alternator With DC Out Put

Air Systems	
Air Filter Type	Paper Element (Replaceable)
Combustion Air Flow m <sup>3</sup> /min (cfm)	Prime Standby
	50 Hz 17.0 (648) 18.3 (696)
	60 Hz 22.1 (775) 23.6 (833)
Maximum Air Filter Intake Restriction	4.0kPa

Fuel System	
Fuel Filter Type	Fuel Filters With Pre-Filter (Replaceable)
Recommended Fuel	Class A2 Diesel
Fuel Consumption l/hr (US gal/hr)	Engine speed Standby Prime Power %75 of Prime Power %50 of Prime Power
	1500 rpm 73 (19.2) 65 (17.1) 48 (12.2) 33 (8.8)
	1800 rpm 86 (22.7) 77 (20.3) 57 (15.0) 39 (10.3)
Fuel Tank Capacity: Open / Close	460 L / 595 L

Lubrication System	
Lube oil	API-CI4 SAE 15W-40 (-°10 C to °50 C Ambient Temperature)
Lube Oil Capacity	39.0 L
Oil Pan	33.0 L
Oil Filter Type	Full Flow Spin-on (Replaceable)
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	33.2 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	609 (21507)
Heat Radiation to Room Prime Standby	50 Hz 50 kW 61 kW
	60 Hz 71 86

Exhaust System			
Silencer	Grade	Industrial	
	Size	4"	
	Qty	1	
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime	44.1 (1558)	
	Standby	47.6 (1681)	
		54.8 (1934) 59.6 (2103)	
Maximum allowable backpressure	10 kPa	-	
Exhaust Gas Maximum Temp	50 Hz	60 Hz	
	Prime	561°C	489 °C
	Standby	574°C	512 °C

Alternator Technical Data		Stamford							
Model Number		HCI 444D							
No. of Poles		4							
Number of Terminals (Leads)		12							
A.V.R. & Excitation		AS440							
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)		48.00 (1700)							
Cooling Air Flow- @ 60 Hz m <sup>3</sup> /min (cfm)		59.40 (2100)							
Output Voltages		50Hz				60Hz			
	V	380	400	415	440	415	440	460	480
kVA		330	330	330	320	375	395	415	415
Kw		264	264	264	256	300	316	332	332



Made in UAE



ISO 9001 : 2008 Certified



## THE POWER OF DUBAI

### PI 330P/50Hz

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"> <li>• Oil pressure</li> <li>• Coolant temperature</li> <li>• Fuel level (Optional)</li> <li>• Coolant level</li> </ul>
Generator Protections	<ul style="list-style-type: none"> <li>• Over / Under voltage</li> <li>• Over/Under frequency</li> <li>• Phases Sequence</li> <li>• Over current</li> <li>• Charging Alternator Fault</li> </ul>
Inputs and Outputs	<ul style="list-style-type: none"> <li>• 3 No's Configurable analog inputs</li> <li>• 4 No's binary inputs</li> <li>• 6 No's binary outputs</li> <li>• D + Pre-Excitation terminal</li> </ul>
Event and Performance Log	<ul style="list-style-type: none"> <li>• Gen-set text alarm log</li> <li>• For More Features We Can Use Higher Controller</li> <li>• Engine hours history log</li> </ul>

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 Single Point Lifting Facility & Forklift Pockets
Noise level (at free-field conditions)	73 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	2980	1100	1859	2228
Enclosed	4322	1463	2210	3228

**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