



# PRECISION INDUSTRIES®

PI 500P/50Hz THE POWER OF DUBAI  
PI 563P/60Hz

Output Power Ratings			Prime*		Standby*		
rpm	Frequency	Voltage	Kva	kW	Kva	kW	
1500	50Hz	400	455	364	500	400	
1800	60Hz	480	500	400	563	450	

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 2506A-E15TAG1
Cylinders	6 Vertical In-Line
Aspiration	Turbo Charged Air- to- Air Charge Cooled
Combustion System	Direct Injection
Displacement	15.2liters
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 <sup>3</sup> /min (cfm)	50 Hz
	60 Hz
Prime Standby	911.11) 25.8)
	1211.29) 34.3)
Maximum Air Filter Intake Restriction	1077.09) 30.5)
	1341.95) 38.0)
Maximum Air Filter Intake Restriction	6.2 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
	27.5) 104)
Prime Power	25.1) 95)
%75 of Prime Power	19.0) 72)
%50 of Prime Power	13.2) 50)
Fuel Tank Capacity: Open / Close	690 L / 690 L

Lubrication System	
Lube Oil	API-CH4, SAE 15W-40 (- <sup>o</sup> 10 C to <sup>o</sup> 50 C Ambient Temperature)
Lube Oil Capacity	62 L
Oil Pan	53 L
Oil Filter Type	Full-Flow Ecoplus (Replaceable)
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	58 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	25497.19) 722)
	30582.5) 866)
Heat Radiation to Room	50 Hz
	60 Hz
Prime Standby	27.2kW
	30.5 kW
Standby	31.2kW
	32.5 kW

Exhaust System	
Silencer	Grade
	Industrial
	Size
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	6"
	Qty
	1
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime
	Standby
Maximum allowable backpressure	2521.46) 71.4)
	2860.48) 81.0)
Exhaust Gas Maximum Temp	3390.20) 96.0)
	3718.63) 105.3)
Prime Standby	6.8 kPa
	6.8 kPa
Standby	50 Hz
	60 Hz
Temp	N/A
	*550C

Alternator Technical Data		Stamford							
Model Number		HCI 544C							
No. of Poles		4							
Number of Terminals (Leads)		12							
A.V.R. & Excitation		SX440 / SX421							
Regulation		±1.0% / ±%0.5							
Ingress Protection		IP-23							
Insulation Class		H							
Total Harmonic TGH / THC		< %2							
TIF		<50							
Cooling Air Flow- @ 50 Hz m <sup>3</sup> /min (cfm)		62.1 (2202)							
Cooling Air Flow- @ 60 Hz m <sup>3</sup> /min (cfm)		78.72 (2780)							
Output Voltages		50Hz				60Hz			
	V	380	400	415	440	416	440	460	480
kVA		450	450	450	450	525	550	581	594
Kw		360	360	360	360	420	440	464.8	475.2



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"> <li>Oil pressure</li> <li>Coolant temperature</li> <li>Fuel level (Optional)</li> <li>Coolant level (Optional)</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 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	3403
Enclosed	5012	1670	2447	4197

**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