



# PRECISION INDUSTRIES®

PI 660P/50Hz THE POWER OF DUBAI  
PI 687P/60Hz

Output Power Ratings			Prime*		Standby*		
rpm	Frequency	Voltage	Kva	kW	Kva	kW	
1500	50Hz	400	600	480	660	528	
1800	60Hz	480	625	500	687	550	

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 2806A-E18TAG1A
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged and Air- to- Air Charge Cooled
Combustion System	Direct Injection
Displacement	18.1liters
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	34(1200.69)
Standby	36 (1271.32)	1589.16) 45)
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	35.4) 134)	37.2) 141)
	Prime Power	32.5) 123)	33.5) 127)
	%75 of Prime Power	23.8) 90)	25.1) 95)
	%50 of Prime Power	16.1) 61)	17.4) 66)
Fuel Tank Capacity: Open / Close	1250L / 720 L		

Lubrication System	
Lube Oil	API-CG4, SAE 15W-40 (-*10 C to *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	61 L	
Cooling System	Mounted Radiator, Water Cooled	
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	24790.9) 702)	30088.1) 852)
Heat Radiation to Room	50 Hz	60 Hz
	Prime	38kW
Standby	42kW	44 kW

Exhaust System			
Silencer	Grade	Industrial	
	Size	8"	
	Qty	1	
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime	3390.20) 96)	3849.29) 109)
	Standby	3672.72) 104)	118 (4167.13)
Maximum allowable backpressure	6.9 kPa		
Exhaust Gas Maximum Temp	50 Hz	60 Hz	
	Prime	568°C	*481C
	Standby	571°C	*489C

Alternator Technical Data		Stamford							
Model Number	HCI 544E								
No. of Poles	4								
Number of Terminals (Leads)	12								
A.V.R. & Excitation	SX 440 / SX 421								
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	600	600	600	600	681	713	731	750	
Kw	-	480	480	480	544.8	570.4	584.8	600	



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)	77 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	3700	1850	2340	4121
Enclosed	5362	1670	2738	5641

### 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