



# PRECISION INDUSTRIES®

PI 14.3P/50Hz THE POWER OF DUBAI  
PI 17.4P/60Hz

Output Power Ratings			Prime*		Standby**	
rpm	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	400	13.0	10.4	14.3	11.4
1800	60Hz	480	15.8	12.6	17.4	13.9

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 403A-15G1
Cylinders	3 Vertical In-Line
Aspiration	Naturally Aspirated
Combustion System	Indirect Injection
Displacement	1.496 liters
Governor	Mechanical
Emissions Regulations	EU stage IIIA& US EPA Tier 4
Electrical Starting System	12 Volt Starter Motor And 12 Volt 15 Amp Alternator With Dc Output

Air Systems	
Air Filter Type	Dry Element (Replaceable)
Combustion Air Flow m <sup>3</sup> /min (cfm)	Prime Standby
	50 Hz 1.10 (38.84) 1.10 (38.84)
	60 Hz 1.23 (43.43) 1.23 (43.43)
Maximum Air Filter Intake Restriction	6.4kPa

Fuel System	
Fuel Filter Type	Split Element (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 1.08 (4.1) 0.98 (3.7) 0.74 (2.8) 2.0 (0.53)
	1800 rpm 1.29 (4.9) 1.16 (4.4) 0.90 (3.4) 0.66 (2.5)
Fuel Tank Capacity: Open / Close	97 L /114L

Lubrication System	
Lube Oil	API-CH-4 or ACEA E5 SAE 15W40 (-*10 C to *50 C Ambient Temperature)
Lube Oil Capacity	6.0 L
Oil Pan	4.5 L
Oil Filter Type	Spin-On Full-Flow
Oil Cooling Method	N/A

Cooling System	
Coolant Capacity	6.0 L
Cooling System	Mounted Radiator, Water Cooled
Cooling Fan Air Flow m <sup>3</sup> /min (cfm)	50 Hz 60 Hz
	36.6(1292.51) 51.0(1801.04)
Heat Radiation to Room Prime Standby	3.2 KW 3.5 KW
	3.9 KW 4.3 KW

Exhaust System		
Silencer	Grade	Industrial
	Size	2"
	Qty	1
Exhaust Gas Flow m <sup>3</sup> /min (cfm)	Prime	2.70(95.34)
	Standby	2.90 (102.41)
Maximum Allowable Backpressure	50 Hz	10.2 kPa
	60 Hz	10.2 kPa
Exhaust Gas Maximum Temp	Prime	445°C
	Standby	455°C
		505°C

Alternator Technical Data		Stamford							
Model Number	SOL1-P1								
No. of Poles	4								
Number of Terminals (Leads)	12								
A.V.R. & Excitation	A5540								
Regulation	±1%								
Ingress Protection	IP-23								
Insulation Class	H								
TIF	<50								
THD at Full Load %	<5%								
THD at No Load %	<2%								
Cooling Air Flow- @ 50 Hz m <sup>3</sup> /min (cfm)	3.48 (122.80)								
Cooling Air Flow- @ 60 Hz m <sup>3</sup> /min (cfm)	4.20 (148.00)								
Output Voltages	50Hz				60Hz				
	V	380	400	415	440	415	440	460	480
kVA	15.1	16.5	16.5	N/A	17.4	18.5	N/A	19.8	
kW	12.1	13.2	13.2	N/A	13.9	14.8	N/A	15.8	



Made in UAE



ISO 9001 : 2008 Certified



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Controller Features	DSE 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</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>4 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	4
Drainage	Fuel & Water Drainage Provision
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Noise Level (@ Free-Field Conditions)	66 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	1624	750	1220	419
Enclosed	2212	912	1402	717

**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