



PRECISION INDUSTRIES®

PI 49.6P/50Hz THE POWER OF DUBAI
PI 58.7P/60Hz

| Output Power Ratings | | | Prime* | | Standby** | |
|----------------------|-----------|---------|--------|------|-----------|------|
| rpm | Frequency | Voltage | Kva | kW | Kva | kW |
| 1500 | 50Hz | 400 | 45 | 36 | 49.6 | 39.7 |
| 1800 | 60Hz | 480 | 53.1 | 42.5 | 58.7 | 46.9 |

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 1103A-33TG1 |
| Cylinders | 3 vertical In-Line |
| Aspiration | Turbo Charged |
| Combustion System | Direct Injection |
| Displacement | 3.3liters |
| Governor | Mechanical(Optional Electronic) |
| Emissions Regulations | Not Applicable |
| Electrical Starting System | 12 Volt Starter Motor And 12 Volt 65 Amp Alternator With DC Output |

| Air Systems | | | |
|--|--------------------------|-------------|-------------|
| Air Filter Type | Dry Element(Replaceable) | | |
| Combustion Air Flow m ³ /min (cfm) | 50 Hz | 60 Hz | |
| | Prime | 102.4 (2.9) | 130.6 (3.7) |
| | Standby | 109.4 (3.1) | 137.7 (3.9) |
| Maximum Air Filter Intake Restriction | 8.0kPa | 8.0kPa | |

| 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 | 3.17 (12.0) | 3.78 (14.3) |
| | Prime Power | 2.83 (10.7) | 3.41 (12.9) |
| | %75 of Prime Power | 8.2 (2.17) | 2.62 (9.9) |
| | %50 of Prime Power | 1.51 (5.7) | 1.88 (7.1) |
| Fuel Tank Capacity: Open / Close | 180 L/167 L | | |

| Lubrication System | |
|--------------------|--|
| Lube Oil | API -CG4/CH4 SAE 15W40 (-*10 C to *50 C Ambient Temperature) |
| Lube Oil Capacity | 8.3 L |
| Oil Pan | 7.9 L |
| Oil Filter Type | Spin-On (Replaceable) |
| Oil Cooling Method | Water |

| Cooling System | | | |
|--|--------------------------------|---------------|--------|
| Coolant Capacity | 10.2 L | | |
| Cooling Type | Mounted Radiator, Water Cooled | | |
| Cooling Fan Air Flow m ³ /min (cfm) | 50 Hz | 70.0 (2472.0) | |
| | 60 Hz | | |
| Heat Radiation to Room | Prime | 7.0 Kw | 8.0 Kw |
| | Standby | 8.0 Kw | 9.0 Kw |

| Exhaust System | | | |
|---|---------|-------------|-------------|
| Silencer | Grade | Industrial | |
| | Size | 2.5" | |
| | Qty | 1 | |
| Exhaust Gas Flow m ³ /min (cfm) | Prime | 247.2 (7.0) | 310.7 (8.8) |
| | Standby | 271.9 (7.7) | 335.4 (9.5) |
| Maximum Allowable Back Pressure | 10 kPa | 15 kPa | |
| Exhaust Gas Maximum Temp | 50 Hz | 60 Hz | |
| | Prime | 492°C | 510°C |
| Standby | 537°C | 551°C | |

| Alternator Technical Data | | Stamford | | | | | | | |
|---|-------------|----------|-----|------|------|------|------|------|-----|
| Model Number | UCI224D | | | | | | | | |
| No. of Poles | 4 | | | | | | | | |
| Number of Terminals (Leads) | 12 | | | | | | | | |
| A.V.R. & Excitation | SX460 | | | | | | | | |
| Regulation | ±1% | | | | | | | | |
| 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 ³ /min (cfm) | 12.96 (458) | | | | | | | | |
| Cooling Air Flow- @ 60 Hz m ³ /min (cfm) | 16.86 (595) | | | | | | | | |
| Output Voltages | 50Hz | | | | 60Hz | | | | |
| | V | 380 | 400 | 415 | 440 | 415 | 440 | 460 | 480 |
| kVA | 55 | 55 | 55 | 41.2 | 65 | 66.3 | 66.3 | 71.3 | |
| kW | 44 | 44 | 44 | 33.0 | 52 | 53 | 53 | 57.0 | |



Made in UAE



ISO 9001 : 2008 Certified



THE POWER OF DUBAI

PI 33P/50Hz

PI 38.2P/60Hz

| | |
|---------------------------|---|
| 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"> 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 4 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 Single Point Lifting Facility & Forklift Pockets |
| Noise Level (@Free-Field Conditions) | 68 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 | 1925 | 750 | 1430 | 759 |
| Enclosed | 2594 | 1112 | 1521 | 1188 |

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