



GENERATOR MODEL: UP80

230/400V, 50HZ @ 1500RPM

| | | |
|----------------------|---------------|----------------|
| Prime Power | 80 kVA | 64 kW |
| Standby Power | 88 kVA | 70.4 kW |

Features:

- **Warranty: 1 year or 1000 hours.**
- **Perkins as the world's leading power engines manufacturer since 1932.**
- **24/7 after sales support.**
- **Easy and economical availability of Spares.**
- **Advance digital control system, Long service life, Easy to Operate, Low Fuel consumption, Anti vibrating Isolators.**
- **Automatic start (optional), Eco-friendly.**
- **Low oil shutdown safety.**
- **Automatic overload protection safety.**



Engine

Perkins-UK, Model 1104A-44TG2, in accordance to ISO3046, ISO 8528, DIN 6271



Alternator

Stamford UK, Leroy Somer-France, Meccalte-EU Complying to the following Standards:CEE/CE12/3/EN60034-1 / IEC34-1/VDE



Control Panel

Deep Sea Electronics DSE-4000/6000 series, Made in UK, Comply to standards: BS EN 61000, BS EN 60950, BS EN 60068



Fuel Tank

The overall fuel tank capacity: 200 LTR.



Dimensions

L x W x H = 8.5' x 3.6' x 5.0' (with Canopy)

ENGINE TECHNICAL DATA



SCHEMA



FUEL



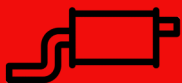
LUBE SYSTEM



COOLING

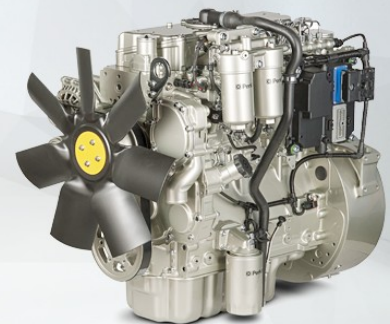


AIR INTAKE



EXHAUST

| | |
|-------------------------------|------------------------------------|
| Engine Make | Perkins |
| Engine Model | 1104A-44TG2 |
| Number Of Cylinders | 4 |
| Cylinder Arrangement | Vertical In Line |
| Bore and Stroke | 105 mm x 127 mm |
| Governor Type | Mechanical |
| Displacement | 4.4 L |
| Compression Ratio | 17.25:1 |
| Aspiration | Turbocharged |
| Cycle | 4 Stroke |
| Combustion System | Direct Injection |
| Rotation | Anti-clockwise, viewed on flywheel |
| Cooling System | Water - Cooled |
| Frequency and Engine Speed | 50Hz and 1500 rpm |
| Gross Engine Power (Prime) | 73.4 kW / 98.4 h.p |
| Gross Engine Power (Standby) | 80.7 kW / 108.2 h.p |
| Fuel Consumption | |
| 100% Load (L/hr) | 20.5 |
| 75% Load (L/hr) | 14.0 |
| 50% Load (L/hr) | 9.7 |
| Fuel Tank Capacity | 200 Ltr |
| Lubrication System Capacity | 8.0 Ltr |
| Total Coolant Capacity | 13.0 Ltr |
| Radiator Cooling Air Flow | 1.48 m ³ /sec |
| Combustion Air Flow | 4.8 m ³ /min |
| Exhaust Gas Flow (Prime) | 12.5 m ³ /min |
| Exhaust Gas Flow (Standby) | 13.3 m ³ /min |
| Exhaust Temperature (Prime) | 555 °C |
| Exhaust Temperature (Standby) | 580 °C |



ALTERNATOR TECHNICAL DATA



SCHEMA

| | |
|------------------------|-----------------------------------|
| Insulation System | Class H |
| Winding Pitch | 2/3 to Minimize Harmonics effects |
| Number of Poles | 4 |
| Number of Bearings | Single Bearing |
| RPM | 1500 RPM |
| Power Factor | 0.8/1 |
| Regulation | ± 1% |
| Frequency | 50 Hz |
| Voltage Range | 380-415 / 220-240 |
| IP Rating (Protection) | Ip23 |

Synchronous, 3/1 phase, Brushless & Self Excited

NOTE: Alternator Brand & Model is subject to availability.



CONTROL MODULE

DEEP SEA ELECTRONICS
(DSE-4000/6000 Series)



INDICATORS

- ✔ Operating Hours
- ✔ 3 Phase Generator Voltage Sensing & Monitoring
- ✔ Current Protection & Monitoring
- ✔ Power Measurement (kW, kVA, kVA_r, kWh, kVAh, kVA_rh, pf)
- ✔ Frequency Monitoring (Hz)
- ✔ Oil Pressure/Coolant Temperature
- ✔ Battery Voltage Monitoring (DC)
- ✔ Alarm Acknowledge



CONTROLS

- ✔ Engine Cool Down Timer
- ✔ Emergency Stop Push button/ Alarm Acknowledge
- ✔ Warm-up Timer
- ✔ Load Switching Timer
- ✔ Engine Cycle Crank



WARNING & SHUTDOWN ALARM

- ✔ Generator Over/Under Voltage & Frequency
- ✔ Crank Disconnect (Failure to Start)
- ✔ Under/Over Speed
- ✔ Over Current
- ✔ Low Oil Pressure
- ✔ High Water Temperature
- ✔ Low Fuel Level
- ✔ Low Water Level



FEATURES

- ✔ User Friendly
- ✔ Compatible With CAN Engines
- ✔ License Free Software
- ✔ Largest Backlit Icon Display In Its Class
- ✔ Fully Configured Via The Fascia Or Pc Using Usb
- ✔ Efficient Power Save Mode

