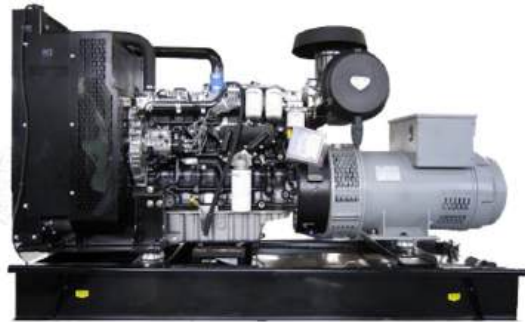


DIESEL GENERATING SET



| Model | SP-250P | |
|----------------------|----------|-------------------|
| Standby | kVA | 275 |
| | kW | 220 |
| Prime | kVA | 250 |
| | kW | 200 |
| Rated Voltage | V | 220 / 380 |
| Phase | | 3 |
| Rated Current | A | 380 |
| Rated Rotation Speed | r/min | 1500 |
| Frequency | Hz | 50 |
| Power Factor | | 0.8 |
| Noise Level | dB(A)@7m | Silent Type : ±70 |

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.
 Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528,ISO 3046.



ENGINE

| | |
|--|--------------------------|
| Manufacturer | PERKINS |
| Model | 1206A-E70TTAG3 |
| Engine speed rated | 1500 RPM |
| Cycle | Four Stroke |
| No. Cylinders and Build | 6 vertical in-line |
| Displacement | 7.01 L |
| Bore and Stroke | 105 mm x 135 mm |
| Compression ratio | 15.8:1 |
| Governor | Electronic |
| Aspiration | Turbocharged aftercooled |
| Fuel consumption 110% | 64.5 L/hr |
| Fuel consumption 100% (of the Prime Power) | 56.9 L/hr |
| Fuel consumption 75% (of the Prime Power) | 41.5 L/hr |
| Fuel consumption 50% (of the Prime Power) | 28.1 L/hr |
| Fuel Tank Capacity | 400 L |
| Lubrication Capacity | 13-16 L |
| Coolant Capacity | 25 L |
| Starting Voltage | 24 Volt DC |

ALTERNATOR

| | |
|--------------------------------------|----------------------------|
| Manufacturer | GENSO |
| Number of phase power | 3 |
| Factor (Cos Phi) | 0.8 |
| Bearing | 1 |
| Exciter type | Brushless, Self-excitation |
| Insulation : class, temperature rise | H |
| Degree of protection | IP23 |
| Winding Pitch | 2/3 |
| Winding Leads | 12 |

CONTROL SYSTEM

The control panel is equipped as follows:

1. Auto Mains Failure Control Panel

Panel equipments:

- Control with AMF module
- Static battery charger
- Emergency stop push button



DSE 6120

Generating set control module DSE 6120 features:

- The module is used to monitor main supply and starts and stops of a standby generating set
- Micro-processor based design,
- Automatic control of main and generator contactors
- Monitors engine performance and AC power output
- LED alarm indication
- Front panel configuration of timers and alarm trip points
- Easy push button control
STOP/RESET - MANUAL - TEST - AUTO - MUTE ALARM -START
- Generator Volts (L-L / L-N)
- Engine oil pressure (PSI-Bar)
- Generator Ampere (L1,L2,L3)
- Engine temperature (°C&°F)
- Generator Frequency (Hz)
- Plant battery volts
- Engine hours run
- Mains Volts (Ph-Ph/Ph-N)
- Generator kVA, kWh
- Generator kW as % of rated kW setting
- Generator Cos (σ)

Protecting Functions:

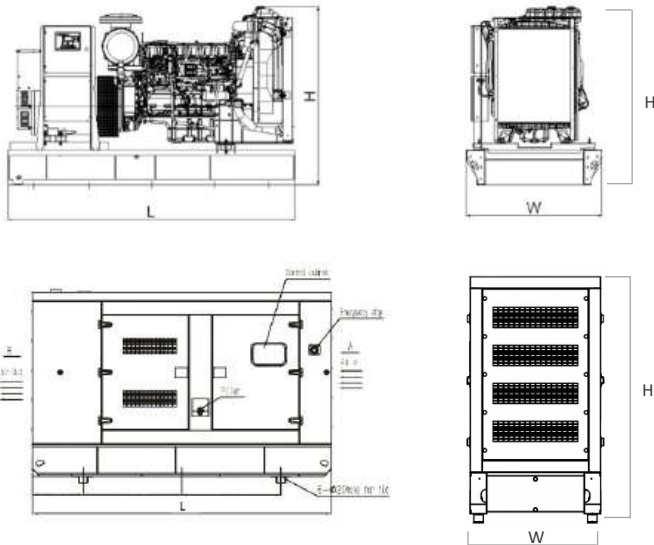
- Over and Under Speed
- Low and High Battery Volt
- Start and Stop Failure
- Charge fail
- Over Current
- Under / Over Generator Voltage
- Low Oil Pressure
- Emergency stop
- High engine temperature
- Kw overload

LED indications

- Mains available
- Generator available
- Mains on load
- Generator on load

2. Power Outlet Terminal Board Mounted on the Gen-set Base Frame

GENSET OUTLINE



Dimension & Weight :

| OPEN TYPE | |
|------------|---------|
| Length (L) | 2600 mm |
| Width (W) | 1050 mm |
| Height (H) | 1600 mm |
| Weight | 2500 kg |

| SILENT TYPE | |
|-------------|---------|
| Length (L) | 3710 mm |
| Width (W) | 1410 mm |
| Height (H) | 1900 mm |
| Weight | 2950 kg |

ADVANTAGES

- Compact design
- Easy operation and maintenance, low cost
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing

CHASSIS

- The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- High quality base frame complete with heavy duty engine mounting for reduce vibration
- Base frame design integrated with fuel tank (up to 650 KVA)
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank

CANOPY

- Doors on each side
- High quality paints materials
- High quality sound proof and insulations materials could efficiently reduce noise
- Easy lifting and moving
- Emergency stop push button is installed outside of the canopy
- Exhaust silencer is protected against environment influences