

UPG- 9 KVA-PK@50Hz



**9 kVA / 7.2 kW
POWERED by Perkins**

DIESEL GENERATING SET 440/254V, 415/240V, 400/230V, 380/220V - 50 Hz

| MODEL | | UPG-9kVA-PK@50 Hz | |
|------------------|---------|-------------------|-----|
| Power Pf. 0.8 | Standby | kVA | 10 |
| | | kW | 8 |
| | Prime | kVA | 9 |
| | | kW | 7.2 |

Standby : Power available in the event of a main power network failure up to a maximum of 500 hr. / year of which 300 hours may be run continuously, load factor maybe up to 100 % of standby power. No overload is permitted.
Prime : Power available at variable load with a load factor not exceeding 80% of rated power. Overload of 10% is permitted for 1 hour every 12 hours.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- 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
- Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and on - road trailer



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

ENGINE

Perkins

| | | |
|----------------------------------|------------|---------|
| Model | 403A-11G1 | |
| Engine Power Output at rated rpm | kWm | 9.5 |
| | HP | 12.7 |
| Aspiration and Cooling | Natural | |
| Total Displacement | Litre | 1.13 |
| No. of Cylinders and Build | 3-.Inline | |
| Engine Speed | rpm | 1500 |
| Bore and Stroke | mmxmm | 77x81 |
| Compression Ratio | 23:1 | |
| Governor | Mechanical | |
| Fuel Consumption at full load | L/hr | 2.6 |
| Fuel Tank Capacity | Litre | 8 Hours |
| Oil Capacity | Litre | 4.9 |
| Coolant Capacity | Litre | 5.2 |
| Radiator Cooling Air | m³/min | 40.2 |
| Air Intake – Engine | m³/min | 0.7 |
| Exhaust Gas Flow | m³/min | 1.8 |

- Heavy duty Perkins diesel engine
- Four stroke, water, cooled, turbo charged
- Direct injection fuel system
- Mechanical Governor system
- 12/24 V D.C. starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter

- Cooling radiator and fan
- Starter battery (miantenance free) including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater(at automatic models)
- Operation manuals and circuit diagram documents

ALTERNATOR



| | |
|---------------------------------------|--|
| Design | Brushless single bearing, revolving field |
| Stator | 2/3 pitch |
| Rotor | Single bearing, flexible disc |
| Insulation System | Class H |
| Standard Temperature Rise | 125 - 163°C Continuous |
| Exciter Type | Self Excited |
| Phase Rotation | A (U), B (V), C (W) |
| Alternator Cooling | Direct drive centrifugal blower fan |
| AC Waveform Total Harmonic Distortion | No load < 1.5%. Non distorting balanced linear load < 5% |
| Telephone Influence Factor (TIF) | <50 per NEMA MG1 - 22.43 |
| Telephone Harmonic Factor (THF) | <2% |

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standard degree of protection IP21 (*IP22/IP23 is available)
- Self-exciting and self-regulating

- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel varies depending on requirement, in general Meico power generators are equipped with DSE 6010 MKII. The main features for DSE 6010 MKII are as follows:

KEY BENEFITS

- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on a large back-lit icon display
- The module can be configured to suit a wide range of applications
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

KEY FEATURES

- Large back-lit icon display
- Heated display option available
- Fully configurable via the fascia or PC using USB communication
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE6620 only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Generator overload protection
- Generator/load current monitoring and protection
- Breaker control via fascia buttons
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- 6 configurable digital inputs
- Configurable staged loading outputs

- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time clock options available
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD and LED alarm indication
- Configurable event log (50)



Also Gensets can be equipped with different control panels depending on usage such as:
DSE 6610: Basic Autostart operation with stand alone application
DSE 7310: advanced Autostart operation with high protections
DSE 7320: advanced auto mains failure operation with high protection
DSE 8610: for synchronization application/solution

OPTIONAL EQUIPMENTS

Diesel Engine

- Oil heater

Alternator

- 3/4 Pole Output Circuit Breaker
- Anti - condensation Heater

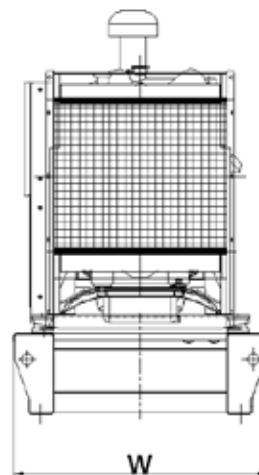
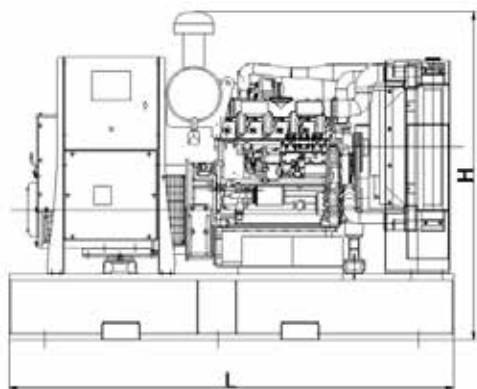
Panel

- Charge ammeter
- Transfer Switch 3 Pole
- Transfer Switch 4 Pole
- Earth Fault, single set

Accessories

- Bulk fuel tank
- Automatic filling system
- Fuel - water separator filter
- Low fuel level alarm
- Residential silencer
- Enclosure or sound proof canopy
- Trailer
- Manual oil drain pump
- Tool kit for maintenance

CHASSIS



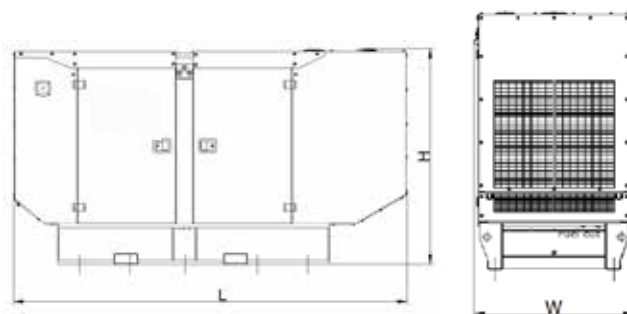
- The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank
- Forklift pockets within base frame (up to 500kVA)

DIMENSIONS

| OPEN TYPE | | |
|--|----|-------------|
| DIMENSIONS (LxWxH) | cm | 110X70XX100 |
| DRY WEIGHT | kg | 309 |
| SOUND ATTENUATED TYPE 75dBA @ 3m in open space | | |
| DIMENSIONS (LxWxH) | cm | 195X86X130 |
| DRY WEIGHT | kg | 615 |

CANOPY

- All canopy parts are designed with modular principles
- Doors on each side
- All metal canopy parts are powder coated
- Exhaust silencer is protected against environment influences
- Easy lifting and moving
- Easy maintenance and operation



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