

UPG - 13 KVA-PK@50Hz



13 kVA / 10.4 kW POWERED by Perkins

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

MODEL			UPG -13kVA-PK@50 Hz
Power Pf. 0.8	Standby	kVA	14.3
		kW	11.44
	Prime	kVA	13
		kW	10.4

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 continiously, 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

- 4 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.



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ENGINE

Perkins						
Model		403A-15G1				
Engine Power Output	kWm	13.5				
at rated rpm	HP	18.1				
Aspiration and Cooling		Natural				
Total Displacement	Litre	1.496				
No. of Cylinders and Build		3Inline				
Engine Speed	rpm	1500				
Bore and Stroke	mmxmm	84X90				
Compression Ratio		22.5:1				
Governor		Mechanical				
Fuel Consumption at full load	L/hr	6.8				
Fuel Tank Capacity	Litre	8 Hours				
Oil Capacity	Litre	6				
Coolant Capacity	Litre	6				
Radiator Cooling Air	m³/min	36.6				
Air Intake – Engine	m³/min	1.1				
Exhaust Gas Flow	m³/min	2.9				

4 Heavy duty Perkins diesel engine

4 Four stroke, water, cooled, turbo charged

Direct injection fuel system

4 Mechanical Governor system

4 12/24 V D.C. starter and charge alternator

4 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)

4 Operation manuals and circuit diagram documents









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%

4 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

4 Stator winding with 2/3 pitch for improved harmonics



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CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel varies depending on requirment, in general Meico power generatorsare 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
- 4 3/4 Pole Output Circuit Breaker
- Anti condensation Heater

Panel

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

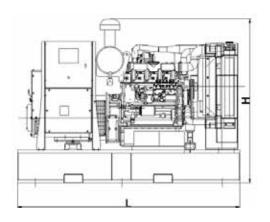
Accessories

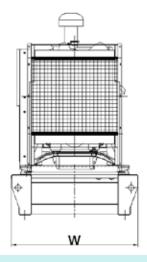
- Bulk fuel tank
- Automatic filling system 4 Fuel - water separator filter
- 🔺 Low fuel level alarm
- Residential silencer
- Enclosure or sound proof canopy
- Trailer
- 🔺 Manual oil drain pump
- Tool kit for maintenance



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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
- 4 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	120X70X100					
DRY WEIGHT	kg	402					
SOUND ATTENUATED TYPE 75dBA @ 3m in open space							
DIMENSIONS (LxWxH)	cm	195X86X130					
DRY WEIGHT	kg	708					

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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