

EPG60P



Industrial Diesel Generator Sets

EPA Certified Tier 3 for Stationary Emergency Applications

Genset Standby Power Rating

Voltage	208/120V	480/277	600/347V	240/120V
Power	60kW	60kW	60kW	60kW
Phase	3	3	3	1
Power Factor	0.8	0.8	0.8	1.0
Current	208A	90A	72A	250A
Alternator Model	UCI224G(Wnd-311)	UCI224G(Wnd-311)	UCI224F(Wnd-17)	UCI224G(Wnd-06)
Temp Rise	125/40°C	125/40°C	125/40°C	125/40°C
Connection	12 Lead	12 Lead	12 Lead	12 Lead

Continuous Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

Prime Power

The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load can be 70%. The generator can be overloaded 10% for 1 hour per 12 hours

Standby Power

The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under the average of 70% load. Overloading isn't permissible.

Certifications & Standards

The Generator set is designed and manufactured in a facility certified to ISO9001:2015, ISO4001:2015, ISO45001-2018 and ISO10002:2014 standards.

Generator Set is UL2200, cUL listed and meets ISO 8528-5

The generator set, with its components, are prototype tested, factory-built and production tested per UL standards.

The generator set meets NFPA110 Level 1 when equipped with the necessary accessories and installed per NFPA standards.

EPG60P



Standard Features - Engine

EPA Certified - Emergency Stationary Only

Heavy-duty, 4-cycle, direct injection

Unit Mounted Radiator

Electronic Governor

Fuel - Water Separator Filter

ISO 8528, ISO 3046, BS 5514, DIN 6271 standards

Capable of full rated load acceptance in one step

Low emission and maximum reliability and durability

Heavy Duty Air Cleaner w/ Restriction Gauge

Flex Exhaust Connection

Application Data - Engine

Engine

Manufacturer Perkins

Model 1104D-E44TG1-EPAK-7P

Number of Cylinders 4 in-line

Cycle 4 stroke

Cubic Capacity 4.4 liter

Bore x Stroke 4.1in x 5in

Aspiration Turbocharged

Combustion System Direct Injection

Standby Engine Power 64.7bhp

Prime Engine Power 71.4bhp

Rated RPM 1800

Fuel Consumption (Standby)

100% 5.00 gal/hr

75% 4.50 gal/hr

50% 3.17 gal/hr

25% 1.58 gal/hr

Electrical System

Starting Motor Voltage 12V

EPG60P



Standard Features - Alternator

Brushless Double Bearing

125/40°C Temperature Rise

Class H Insulation

Low waveform distortion with non-linear loads

EC 60034-1; CEN 60034-1; NEMA MG 1.22, NF 51-100. 111

AREP Excitation

300% Short Circuit Capability

Low reactance 2/3 pitch windings

Self-ventilated and drip-proof construction

BS 4999-5000; VDE 0530, OVE M-10

Application Data - Alternator

Manufacturer	Stamford
Model	UCI224G
Protection	IP 23
Voltage Regulation	± 1.00%
Power Factor	0.8
Frequency	60Hz
Winding Leads	12
Insulation System	H Class
Cooling Air	596 CFM
Phases	3

EPG60P



Control Panel

Manufacturer	DSE - Deep Sea Electronics
Model	7310 MKII
DC Supply	8 to 35V Continuous
Generator Voltage Range (Ph-Ph)	26V to 719VAC
Generator Frequency Range	3.5Hz to 75Hz
Standards	BS EN 91000-6-2, BS EN 61000-6-4 BS EN 60950, BS EN 60529 BS EN 60068-2-1, BS EN 60068-2-2 BS EN 60068-2-6, BS EN 60068-2-30 BS EN 60068-2-78, BS EN 60068-2-27



Key Features

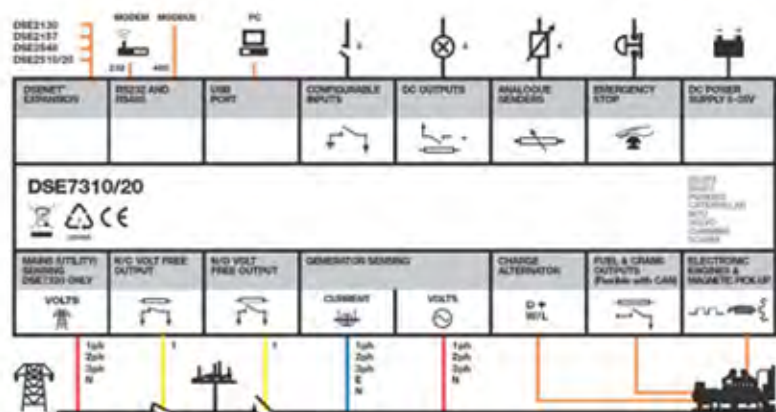
- License free PC software
- 4-Line back-lit LCD text display
- Five key menu navigation
- LCD Alarm Indication
- DSENet expansion compatibility
- Internal PLC editor
- Protection disable feature
- Data logging facility
- Fully configurable via PC
- Front panel configuration
- Power safe mode
- 6 configurable DC outputs
- 2 configurable volt free relay outputs
- 6 configurable analogue/digital inputs
- 8 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- Backed up real time clock
- Fuel usage monitor and low fuel level alarms
- Remote SCADA monitoring vis DSE Configuration Suite PC software
- Multiple date and time scheduler
- Start & Stop capability vis SMS Message
- Configurable event log (250)

Protections

- Gen. Voltage - under/over
- Gen. Freq. - under/over
- Engine Speed - under/over
- Engine Oil Pressure - low
- Engine Temp - low/high
- Battery Voltage - low/high
- Weak Battery
- Fail to Start/Stop
- Charge Alternator Fail
- Over Current & Load (kW/kVA)
- Unbalanced Load
- Independent Earth Fault
- Reverse Power
- Loss of Speed Signal

Instruments

- Gen. Voltage (L-L/L-N)
- Gen. Frequency
- Engine Speed
- Oil Pressure
- Water Temperature
- Battery Voltage
- Run Time
- Phase Sequence
- Power monitoring (kWh/kVAh/kVArh)
- Power (kW/kVAh/kVArh)
- Power Factor
- Generator Current
- Generator Load (%)
- Earth Current



EPG60P



Standard Features - General

Heavy duty structural steel base frame

Battery Charger

Jacket Water Heater

Exhaust Insulation Cover

Operations Manual

Critical Grade Silencer

Battery tray and cables

Flex Fuel Lines

Rubber Vibration Isolator

Standby Limited Warranty

Battery Charger

Manufacturer	DSE
Model	9470 MKII
Operation (L-N)	90V to 350V
Output Current	10A

Jacket Water Heater

Manufacturer	Hotstart
Model	PS051GT10-000

Dimensions, Weights & Sound Levels

	L x W x H (inches)	Weight (lbs)	Sound Level*
Open Skid	87.40 x 39.37 x 62.33	2339.85	-
Level 2 Enclosure	138.98 x 39.37 x 69.66	2652.48	TBA
Level 3 Enclosure	TBA	TBA	TBA

*Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at stand-by power rating

Fuel Tank (UL142 Listed-Option)

Size	L x W x H (inches)	Weight (lbs)
150gal/24hr	169.7 x 39.37 x 10.90	1549.41
250gal/48hr	169.7 x 39.37 x 16.41	1843.38
400gal/72hr	169.7 x 39.37 x 24.03	2262.62

Sound Attenuated Enclosure (Option)

Compatible with 2000/14/EC directives

Factory built, UL Certified

Amplified paint against corrosion and rust

Exceeds 2000 hours salt spray test

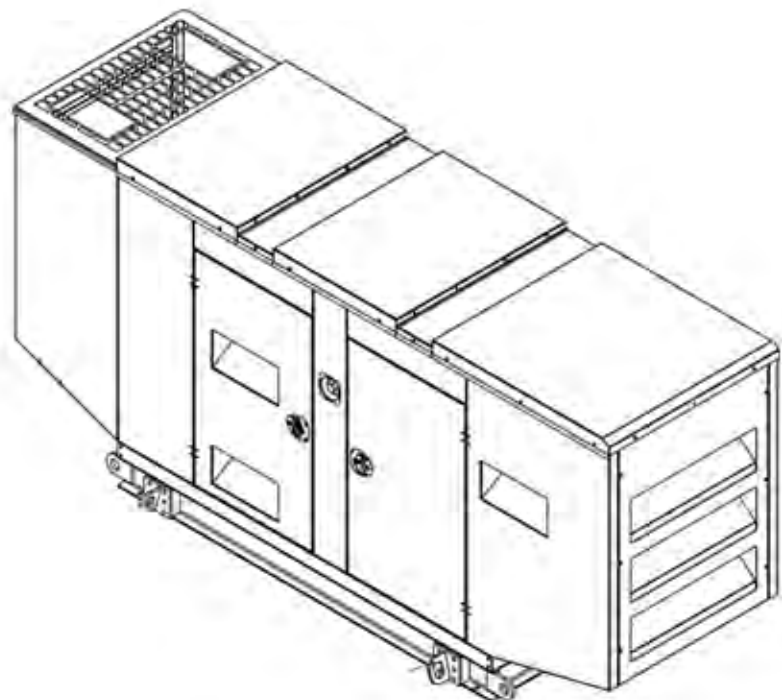
Level 2/3 Sound Level Compliant

Heavy Duty Steel/Aluminum Structure

High Performance sound absorb material

Vertical air discharge

Exhaust muffler inside the canopy



EPG60P



Available Options

Circuit Breakers

- Magnetic Trip
- Thermal Magnetic Trip
- Electronic Trip LS/I
- Electronic Trip LSI
- Electronic Trip LSIG
- 80% Rating
- 100% Rating
- Electrically Operated CB (Paralleling)
- Shunt Trip - wired to controller
- Auxiliary Contact - volt free contact

Alternator

- Upsize Alternator
- Space Heater
- RTD Sensors

Electrical

- GFCI Receptable Outlet
- Load Center
- Power Outlet (14-50R, 120/240V, 50A)
- Power Outlet (TT30R, 120V, 30A)
- Power Outlet (120/240V, 80A)
NEMA5-20R, NEMA14-50R, TT-30R
- Surge Protector

Control System

- Remote Annunciator Panel - 8 lights
- Remote Annunciator Panel - 16 lights
- Remote Annunciator Panel - 24 lights
- Common Alarm Relay - V free contact
- Generator Alarm Relay - V free contact
- Control Panel Heater
- Dry Cntacts Expansion Relay
- Remote E-Stop Switch
- Remote E-Stop Swtich - Break Glass
- Remote Monitoring (DSE892 SNMP)
- Remote Monitoring (DSE890 Webnet)
- Paralleling System Upgrade
- Manual Voltage Adjust
- Manual Speed Adjust

Miscellaneous

- ATS Panel
- Rated Power Factor Factory Testing
- Enclosure Heater
- Oil Pan Heater
- Spring Isolators
- Crankcase Ventilation Filter
- Critical Silencer Set w/ Open Skid Unit

Enclosures

- Sound Attenuated Level 3
- Sound Attenuated Level 3
- Enclosure DC light w/ timer
- Enclosure AC light
- Enlcosure Space Heater
- Motorized Air Inlet Damper
- Gravity Radiator Louver

Fuel Tank

- UL142 Listed
- UL2085 Listed
- Fuel Level Display on Controller
- Fuel/Water Seperator

Battery System

- Starting Batteries
- Battery Charger (NFPA110 Compliant)
- Battery Wrap Heater
- Battery Restraint
- Battery Disconnect Switch