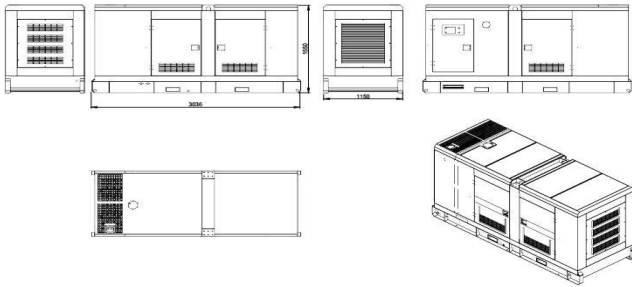



WATER-COOLED

3 PHASE

50 HZ 380-415V

DIESEL FUEL

STANDARD SPECIFICATIONS
1. ENGINE

FOUR STROKE HEAVY DUTY IGH PERFORMANCE INDUSTRIAL DIESEL ENGINE

2. ENGINE FILTRATION SYSTEM

- AIR FILTER
- FUEL FILTER
- FULL FOLLOW LUBO OIL FILTER

ALL FILTERS HAS REPLACEABLE ELEMENTS

3. COOLING SYSTEM
4. EXHAUST SYSTEM

HEAVY DUTY INDUSTRIAL EXHAUST SILENCER

5. CIRCUIT BREAKER TYPE

DELIXI MCCB 3POLE

GENERATING SET MODEL
PWG-DC-110
OUTPUT RATING
PRIME
STANDBY
380V,3PH, 50HZ,1500RPM
100KVA
110KVA
80KW
88KW
GENERATING SET MODEL
ENGINE MAKE
CUMMINS
ENGINE MODEL
6BT5.9-G2
GOVERNING TYPE
Electrical
NUMBER OF CYLINDERS
6
CYLINDER ARRANGEMENT
IN-LINE
BORE AND STROKE (mm)
102 X 120
DISPLACEMENT
5.9L
CYCLE
4 STROKE
COMPRESSION RATIO
17.3:1
ASPIRATION
Turbocharged
COOLING SYSTEM
WATER-COOLING
FREQUENCY & ENGINE SPEED
50 HZ & 1500RPM
NOISE LEVEL @ 7M
70 dBA
GROSS ENGINE POWER kW
PRIME
STANDBY
96KW
-
FUEL CONSUMPTION @ 100% L/hr
19.81
-
FUEL CONSUMPTION @ 50% L/hr
11.2
-
ALTERNATOR DATA
MAKE
STAMFORD
MODEL
DPC274C
NO. OF BEARINGS
1
INSULATION CLASS
H
WIRES
12
EXCITATION SYSTEM
SHUNT
INGRESS PROTECTION
IP23
VOLTAGE
±1%

DIMENSION & WEIGHT

LENGTH (mm)	2900
WIDTH (mm)	1100
HEIGHT (mm)	1250
WEIGHT*kg	1556
FUEL TANK CAPACITY	180L

CONTROL PANEL

MAKE	DEEPSEA
MODEL	6020

RATINGS DEFINITION

PRIME POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUSPURCHASED POWER. 10% OVERLOAD POWER IS AVAILABLE FOR 1HOUR IN 12HOURS CONTINUOUS OPERATION.

STANDBY POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN THE EVENT OF AN UTILITY POWER FAILURE. NO OVERLOAD IS PERMITTED.

STANDARD REFERENCE CONDITIONS

OUTPUT RATING ARE PRESENTED AT 27°C AIR INLET TEMPERATURE, BAROMETRIC PRESSURE 100kPa, RELATIVE HUMIDITY 30%, THIS GENERATING SET IS DESIGNED TO OPERATE AT HIGH AMBIENT TEMPERATURE (UP TO 52°C), HUMIDITY (UP TO 90%) AND HIGH ALTITUDES. DEGRADATION MAY APPLY, PLEASE CONSULT US FOR SPECIFIC SITE RATINGS.

AVAILABLE OPTIONS & ACCESSORIES

WE OFFER A RANGE OF OPTIONAL FEATURES AND ACCESSORIES TO TAILOR OUR GENERATING SETS TO MEET YOUR POWER NEEDS.

OPTIONS

- A VARIETY OF GENERATING SET CONTROL AND SYNCHRONIZING PANELS
- ADDITIONAL PROTECTION ALARMS AND SHUTDOWNS
- WATER - FUEL SEPERATOR
- WATERJACKET HEATER
- BATTERY CHARGER

ACCESSORIES

- GENUINE SPARE PARTS
- AUXILIARY FUEL TANKS

1. FUEL SYSTEM

ON GENERATING SETS UP TO 750KVA STANDBY, THE CHASSIS DESIGN IS INCORPORATED WITH INTEGRAL FUEL TANK WITH A CAPACITY OF APPROX 5 HOURS TO 8 HOURS RUNNING AT FULL LOAD. THE TANK IS SUPPLIED COMPLETE WITH FILL CAP, BREATHER, FUEL FEED AND RETURN LINES TO THE ENGINE AND DRAIN PLUG.

2. ALTERNATOR

2.1. INSULATION SYSTEM

- THE INSULATION SYSTEM IS CLASS H
- ALL WINDINGS ARE IMPREGNATED IN EITHER A TRIPLE DIP THERMOSETTING LIQUID, OIL AND ACID RESISTING POLYESTER VARNISH OR VACUUM PRESSURE IMPREGNATED WITH A SPECIAL POLYESTER RESIN.
- HEAVY COAT OF ANTITRACKING VARNISH ADDITIONAL PROTECTION AGAINST MOISTURE OR CONDENSATION

2.2. AUTOMATIC VOLTAGE REGULATOR (AVR)

THE FULLY SEALED AUTOMATIC VOLTAGE REGULATOR MAINTAINS THE VOLTAGE REGULATION AT $\pm 1\%$.

2.3. MOTOR STARTING (OPTIONAL)

- AN OVERLOAD CAPACITY EQUIVALENT TO 300% OF THE FULL LOAD IMPEDANCE AT ZERO POWER FACTOR CAN BE SUSTAINED FOR 10 SECONDS, WHEN AREP (AUXILIARY WINDING) OPTION IS FITTED.

3. MOUNTING ARRANGEMENT

3.1. CHASSIS

THE COMPLETE GENERATING SET IS MOUNTED AS A WHOLE ON A HEAVY-DUTY FABRICATED STEEL CHASSIS.

3.2. ANTI-VIBRATION MOUNTING DUMPER

DUMPER ARE AFFIXED BETWEEN THE ENGINE & ALTERNATOR FEET AND THE CHASSIS, THUS ENSURING COMPLETE

3.3. COUPLING

THE ENGINE AND ALTERNATOR ARE DIRECTLY COUPLED BY MEANS OF AN SAE FLANGE. THE ENGINE FLYWHEEL IS FLEXIBLY COUPLED TO THE ALTERNATOR ROTOR.

3.4. SAFETY GUARDS

THE FAN & FAN DRIVE ALONG WITH THE BATTERY CHARGING ALTERNATOR ARE SAFETY GUARD PROTECTED FOR PERSONAL PROTECTION.

4. TESTS

THE GENERATING SET IS LOAD TEST BEFORE DISPATCH.

ALL PROTECTIVE DEVICES CONTROL FUNCTIONS AND SITE LOAD CONDITIONS ARE SIMULATED. THE GENERATOR AND ITS SYSTEMS ARE CHECKED BEFORE DISPATCH.

5. EQUIPMENT FINISHING

ALL MILD STEEL COMPONENTS ARE FULLY DEGREASED AND PAINTED WITH POWDER COATED PAINT TO ENSURE MAXIMUM 7.2 AUTOMATIC VOLTAGE REGULATOR (AVR) SCUFF RESISTANCE AND DURABILITY.

6. EQUIPMENT FINISHING

OPERATION & MAINTENANCE MANUAL, CIRCUIT WIRING DIAGRAMS

7. QUALITY STANDARDS

THE EQUIPMENT MEETS THE FOLLOWING STANDARDS: BS4999, BS5000, BS5514, IEC60034, VDE0530 AND ISO8528

8. WARRANTY

ALL OF THE GENERATING SETS ARE COVERED UNDER WARRANTY POLICY FOR A PERIOD OF 12 MONTHS OR 1 YEAR (WHICHEVER COMES EARLIER) OF THE EQUIPMENT IS IN LINE WITH MANUFACTURERS WARRANTY TERMS AND CONDITIONS.

DISTRIBUTED BY



POWERGUARD GENERATOR

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