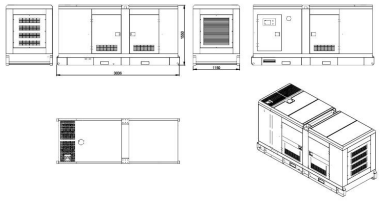
# GENY DCA-60ESI GENERATOR

WATER-COOLED

THREE PHASE

50HZ

DIESEL FUEL



## STANDARD SPECIFICATIONS

1. ENGINE

FOUR STROKE HEAVY DUTY HIGH PERFORMANCE INDUSTRIAL DIESEL ENGINE.

2. ENGINE FILTRATION SYSTEM

- AIR FILTER
- FUEL FILTER
- FULL FLOW LUBO OIL FILTER

ALL FILTERS HAS REPLACEABLE ELEMENTS

3. COOLING SYSTEM

EFFICIENT WATER-COOLED SYSTEM WITH COMPLETE SAFETY GUARDS, DESIGNED TO COOL THE ENGINE AT HIGH AMBIENT TEMPERATURES (CONSULT US FOR DE-RATION FACTORS)

4. EXHAUST SYSTEM

HEAVY DUTY INDUSTRIAL EXHAUST SILENCER

5. CIRCUIT BREAKER TYPE

DELIXI MCCB 3POLE

| GENERATING SET MODEL | | DCA-60ESF |
|---|---|---|
| OUTPUT RATING | PRIME | STANDBY |
| 380/220V,3PH, 50HZ,1500RPM | 45KVA | 50KVA |
| | 30KW | 40KW |

| ENGINE TECHNICAL DATA | | |
|---|---|---|
| ENGINE MAKE | ISUZU | |
| ENGINE MODEL | JE493ZLDB-02 | |
| GOVERNING TYPE | Electrical | |
| NUMBER OF CYLINDERS | 4 | |
| CYLINDER ARRANGEMENT | IN-LINE | |
| BORE AND STROKE (mm) | 102 X 118 | |
| DISPLACEMENT | 3.86 | L |
| ASPIRATION | TURBOCHARGED | |
| CYCLE | 4 STROKE | |
| COMPRESSION RATIO | 17:1 | |
| COOLING SYSTEM | WATER-COOLING | |
| FREQUENCY & ENGINE SPEED | 50HZ & 1500RPM | |
| | PRIME | STANDBY |
| GROSS ENGINE POWER kW | 45kW | - |
| FUEL CONSUMPTION @ 100% L/hr | 10.5 | - |
| FUEL CONSUMPTION @ 50% L/hr | - | - |

| ALTERNATOR DATA | |
|---|---|
| MAKE | DEPCO |
| MODEL | DPC224 |
| NO.OF BEARINGS | 1 |
| INSULATION CLASS | H |
| WIRES | 12 |
| INGRESS PROTECTION | IP23 |
| EXCITATION SYSTEM | SHUNT |
| VOLTAGE | ±1% |

| DIMENSION & WEIGHT | |
|---|---|
| LENGTH mm | 2280 |
| WIDTH mm | 900 |
| HEIGHT mm | 10710 |
| WEIGHT*kg | |
| FUEL TANK CAPACITY | |

| CONTROL PANEL | |
|---|---|
| MAKE | DENYO |
| MODEL | |

PLEASE REFER TO D300 BROCHURE FOR MORE DETAILS

AN INSPIRED DESIGN TO MEET YOUR NEEDS

# GENY DCA-60ESF GENERATOR

## RATINGS DEFINITION

PRIME POWER

THESE RATING ARE APPLICABLE FOR SUPPLYING CONTINUOUS ELECTRICAL POWER (AT VARIABLE LOAD) IN LIEU OF COMMERCIALLY PURCHASED 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 A UTILITY POWER FAILURE. NO OVERLOAD IS PERMITTED.

## STANDARD REFERENCE CONDITIONS

OUTPUT RATING ARE PRESENTED AT 27℃ AIR INLET TEMPERATURE, BAROMETRIC PRESSURE 100kPa, RELATIVE HUMIDITY 30%. THIS GENERATING SET IS DESIGNED TO OPERATE AT HIGH AMBIENT TEMPERATURE (UP TO 52℃), HUMIDITY (UP TO 90%) AND HIGH ALTITUDES. DE-RATION 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
- MANUAL & AUTOMATIC TRANSFER SWITCHS

ASSEMBLED AND DISTRIBUTED BY

*STANDARD SPECIFICATIONS*

8.2 ANTI-VIBERATION MOUNTING DUMPER

DUMPER ARE AFFIXED BETWEEN THE ENGINE & ALTERNATOR FEET AND THE CHASSIS, THUS ENSURING COMPLETE VIBRATION ISOLATION OF ROTATING ASSEMBLY.

8.3 COUPLING

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

8.4 SAFETY GUARDS

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

9. TESTS

- THE GENERATING SET IS LOAD TEST BEFORE DISPATCH.
- ALL PROTECTIVE DEVICES CONTROL FUNCTIONS AND SITE LOAD CONDITIONS ARE SIMULATED. THE GENERATOR AND IT'S SYSTEMS ARE CHECKED BEFORE DISPATCH.

10. EQUIPMENT FINISHING

ALL MILD STEEL COMPONENTS ARE FULLY DEGREASED AND PAINTED WITH POWDER COATED PAINT TO ENSURE MAXIMUM SCUFF RESISTANCE AND DURABILITY.

11. EQUIPMENT FINISHING

OPERATION & MAINTENANCE MANUAL, CIRCUIT WIRING DIAGRAMS.

12. QUALITY STANDARDS

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

13. WARRANTY

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

6. FUEL SYSTEM

ON GENERATING SETS UP TO 55KVA STANDBY, THE CHASSIS DESIGN IS INCORPORATED WITH INTEGRAL FUEL TANK WITH A CAPACITY OF APPROX 5HOURS TO 8HOURS RUNNING AT FULL LOAD. THE TANK IS SUPPLIED COMPLETE WITH FILL CAP, BREATHER, FUEL FEED AND RETURN LINES TO THE ENGINE AND DRAIN PLUG.

7. ALTERNATOR

7.1 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

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

- THE FULLY SEALED AUTOMATIC VOLTAGE REGULATOR MAINTAINS THE VOLTAGE REGULATION AT ±1%.

7.3 MOTOR STARING (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.

8. MOUNTING ARRANGMENT

8.1 CHASSIS

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

IN LINE WITH CONTINUOUS PRODUCT DEVELOPMENT, WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.


**S.E.A. POWER GENT CO.,LTD.**

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