

## DEUTZ 72-150 kVA

### Technical Specifications



#### ENGINE

- DEUTZ WP series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged
- Direct injection
- Mechanic / electronic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

#### QUALITY STANDARD

Our gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

#### ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure

#### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter

#### CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

#### AUTOMATIC CONTROL PANEL

- LCD display screen
- Battery charger
- Hardware and materials needed
- USB port & RS-485 output

#### GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level
- Over current load
- High & low genset voltage
- Start/stop failure



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



# DEUTZ WP Series

## Diesel Generator Sets

### DEUTZ WP Series Diesel Generator Sets 72-150 kVA

| MODEL                                  |                                 |                     | E DZ XX 0072 | E DZ XX 0082          | E DZ XX 0110       | E DZ XX 0150       |   |
|--|---------------------------------|---------------------|--------------|-----------------------|--------------------|--------------------|---|
| GROUP                                  | GEN - SET POWER                 | STAND BY            | kVA          | 72                    | 82                 | 110                | 150                                     |
|  |                                 |                     | kW           | 58                    | 65,6               | 88                 | 120                                     |
|  |                                 | PRIME               | kVA          | 65                    | 75                 | 100                | 136                                     |
|  |                                 |                     | kW           | 52,0                  | 60,0               | 80                 | 109                                     |
|  | CANOPY DIMENSION (W x L x H) mm |                     |              | 1000 x 2880 x 1615    | 1000 x 2880 x 1615 | 1000 x 2880 x 1615 | 1050 x 3180 x 1870                      |
|  | CANOPY WEIGHT kg                |                     |              | 1260                  | 1295               | 1330               | 1580                                    |
|  | OPEN DIMENSION (W x L x H) mm   |                     |              | 1000 x 2400 x 1480    | 1000 x 2400 x 1480 | 1000 x 2400 x 1480 | 1050 x 2700 x 1850                      |
|  | OPEN WEIGHT kg                  |                     |              | 1055                  | 1090               | 1125               | 1330                                    |
| ENGINE                                 | BRAND                           |                     |              | DEUTZ                 | DEUTZ              | DEUTZ              | DEUTZ                                   |
|  | TYPE                            |                     |              | WP4D66E200            | WP4D66E200         | WP4D81E200         | WP4D108E200                             |
|  | POWER                           | STAND BY            | kW           | 74                    | 74                 | 99                 | 132                                     |
|  |                                 | PRIME               | kW           | 67                    | 67                 | 90                 | 120                                     |
|  | SPEED (rpm)                     |                     |              | 1500                  | 1500               | 1500               | 1500                                    |
|  | CYCLE                           |                     |              | 4                     | 4                  | 4                  | 4                                       |
|  | DISPLACEMENT (lt)               |                     |              | 4,5                   | 4,5                | 4,5                | 4,50                                    |
|  | NUMBER OF CYLINDERS             |                     |              | 4 IN LINE             | 4 IN LINE          | 4 IN LINE          | 4 IN LINE                               |
|  | BORE AND STROKE (mm x mm)       |                     |              | 105 x 130             | 105 x 130          | 105 x 130          | 105 x 130                               |
|  | COMPRESSION RATIO               |                     |              | 18:1                  | 18:1               | 18:1               | 18:1                                    |
|  | GOVERNOR TYPE                   |                     |              | MECHANIC / ELECTRONIC |                    |                    | ELECTRONIC                              |
|  | INDUCTION                       |                     |              | TURBOCHARGED          |                    |                    | TURBOCHARGED - AIR TO AIR CHARGE COOLED |
|  | COMBUSTION SYSTEM               |                     |              | DIRECT INJECTION      |                    |                    |   |
|  | COOLING SYSTEM                  |                     |              | WATER                 |                    |                    |   |
|  | FUEL CONSUMPTION (lt/h)         | 100% OF PRIME POWER |              | 13,84                 | 15,47              | 20,76              | 28,05                                   |
|  |                                 | 75% OF PRIME POWER  |              | 10,50                 | 11,74              | 15,76              | 21,08                                   |
| 50% OF PRIME POWER                     |                                 | 7,50                | 8,39         | 11,26                 | 14,54              |                    |   |
| TOTAL LUBRICATION SYSTEM CAPACITY (lt) |                                 |                     | 10           | 10                    | 10                 | 10                 |   |
| TOTAL COOLANT CAPACITY (lt)            |                                 |                     | 15,30        | 15,30                 | 15,30              | 16,30              |   |
| FUEL TANK CAPACITY (lt)                |                                 |                     | 180          | 180                   | 180                | 280                |   |

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

