



# OYB-450

## Diesel Generator



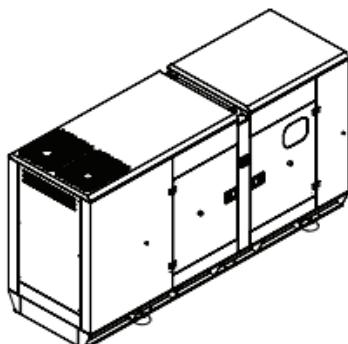
### GENERAL SPECIFICATIONS

|                |               |     |
|----------------|---------------|-----|
| Stand By Power | kVA           | 450 |
|                | kW            | 360 |
| Prime Power    | kVA           | 410 |
|                | kW            | 327 |
| Frequency      | Hz            | 50  |
| Cooling System | Water Cooling |     |

- 1) 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. Overloading isn't permissible.
- 2) Prime Power: The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

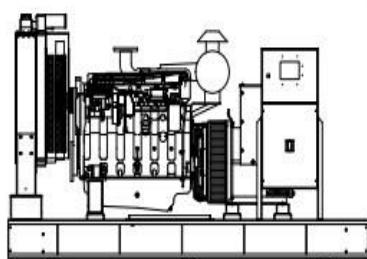
### DIMENSIONS & WEIGHT

#### WITH CANOPY



| Length<br>L (mm) | Width<br>W (mm) | Height<br>H (mm) | Weight<br>(Kg) | Fuel Tank<br>Capacity |
|------------------|-----------------|------------------|----------------|-----------------------|
| 4000             | 1500            | 2200             | 3690           | 630                   |

#### OPENTYPE



| Length<br>L (mm) | Width<br>W (mm) | Height<br>H (mm) | Weight<br>(Kg) | Fuel Tank<br>Capacity |
|------------------|-----------------|------------------|----------------|-----------------------|
| 3300             | 1500            | 2500             | 3155           | 630                   |

## ENGINE

| Engine                    | BAUDOUIN  |  |                            |
|---------------------------|-----------|--|----------------------------|
| Engine Model              |           |  | 6M16G450-5                 |
| Number of Cylinders       |           |  | 6 inline                   |
| Injection System          |           |  | Direct                     |
| Compression Ratio         |           |  | 16:1                       |
| Bore                      | mm        |  | 127                        |
| Stroke                    | mm        |  | 165                        |
| Displacement              | lt        |  | 12.54                      |
| Air Intake                |           |  | Turbocharged & Aftercooled |
| Speed (RPM)               | rpm       |  | 1500                       |
| Oil Capacity              | lt        |  | 30                         |
| Standby Power             | kW / hp   |  | 405 / 542                  |
| Prime Power               | kW / hp   |  | 368 / 493                  |
| Fuel Type                 |           |  | Euro Diesel                |
| Governor System           |           |  | Electronic                 |
| Cooling System            |           |  | Water Cooling              |
| Coolant Capacity          | lt        |  | 47                         |
| Fuel Consumption (lt / h) | Full Load |  | 85.5                       |
|                           | %75 Load  |  | 63.5                       |
|                           | %50 Load  |  | 43.2                       |

## ALTERNATOR

|                     |     |  |         |
|---------------------|-----|--|---------|
| Alternator Model    |     |  | OYL315G |
| Frequency           | Hz  |  | 50      |
| Power               | kVA |  | 450     |
| Voltage             | V   |  | 400     |
| Nb of Phases        |     |  | 3       |
| Voltage Regulation  |     |  | ±1%     |
| Insulation Class    |     |  | H       |
| Protection Standard |     |  | IP23    |
| Power Factor        | Cos |  | 0.8     |

## TECHNICAL SPECIFICATIONS

### ENGINE

- Baudouin heavy duty diesel engine
- 12V/24V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

### ALTERNATOR

- IP23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

### SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

### OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system



# D 300

## Web based Next Generation Controller

### SPECIFICATIONS

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- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection

- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity(RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

### MEASUREMENTS

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- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains& genset, phase& total, kW, kVA, kVAr, pf
- Engine speed
- Battery voltage

### FUNCTIONALITIES

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- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

### COMMUNICATION

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- USB Device
- RS-232 (2400-57600baud)
- J1939-CANBUS
- Geo-locating through GSM
- GPS support(RS-232)
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU
- Modbus TCP/IP