



FP 660

Diesel Generator



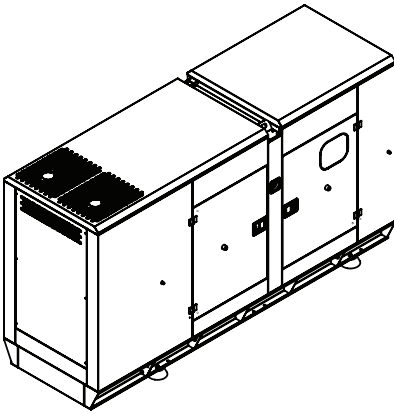
GENERAL SPECIFICATIONS

| | | |
|----------------|---------------|-----|
| Stand By Power | kVA | 660 |
| | kW | 528 |
| Prime Power | kVA | 600 |
| | kW | 480 |
| 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

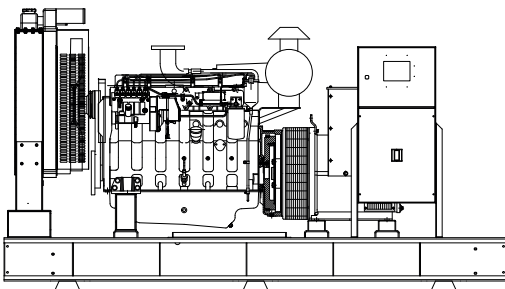
WITH CANOPY



| Length L (mm) | Width W (mm) | Height H (mm) | Weight (Kg) | Fuel Tank Capacity |
|------------------|-----------------|------------------|----------------|-----------------------|
| 5000 | 1700 | 2800 | 5400 | 1250 |

OPEN TYPE

| Length L (mm) | Width W (mm) | Height H (mm) | Weight (Kg) | Fuel Tank Capacity |
|------------------|-----------------|------------------|----------------|-----------------------|
| 4500 | 1700 | 2700 | 4670 | 1250 |



Topçular Endüstriyel Üretim ve Yatırım A.Ş. reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.

ENGINE

| Engine | PERKINS | | |
|---------------------------|-----------|---------|-------------------|
| Engine Model | | | 2806A- E18TAG1A |
| Number of Cylinders | | | 6 Inline |
| Injection System | | | Direct |
| Compression Ratio | | | 14.5 : 1 |
| Bore | | mm | 145 |
| Stroke | | mm | 183 |
| Displacement | | lt | 18.1 |
| Air Intake | | | Turbo Intercooler |
| Speed (RPM) | | rpm | 1500 |
| Oil Capacity | | lt | 62 |
| Standby Power | | kW / hp | 574 / 780 |
| Prime Power | | kW / hp | 521 / 708 |
| Fuel Type | | | Euro Diesel |
| Governor System | | | Electronic |
| Cooling System | | | Water Cooling |
| Coolant Capacity | | lt | 61 |
| Fuel Consumption (lt / h) | Full Load | | 123 |
| | %75 Load | | 90 |
| | %50 Load | | 61 |

ALTERNATOR

| | | | |
|------------------------------|--|-----|-----------|
| Frequency | | Hz | 50 |
| Power | | kVA | 660 |
| Voltage | | V | 230 / 400 |
| Nb of Phases | | | 3 |
| Aut. Voltage Regulator (AVR) | | | AS440 |
| Voltage Regulation | | | ±1% |
| Insulation Class | | | H |
| Protection Standard | | | IP22-IP23 |
| Power Factor | | Cos | 0.8 |

TECHNICAL SPECIFICATIONS

ENGINE

- PERKINS 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

- IP 21-23 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



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CONTROL PANEL

D 300

Web based Next Generation Controller



SPECIFICATIONS

- 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
- 6 configurable 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

- 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

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

COMMUNICATION

- 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