

PROGEN
Generator

PROGEN *Generator*

PG Y18OTO

GENERATOR SET

PRODUCT CATALOGUE

ADDRESS: İVEDİK OSB MAHALLESİ 1455 CADDE NO: 106 YENİMAHALLE ANKARA, TURKEY

| GROUP FEATURES | UNIT | PRIME | STAND BY |
|-----------------------|-------|---------|----------|
| Power | kVA | 16 | 18 |
| Power | kW | 13 | 14 |
| Current | A | 23 | 26 |
| Standard Voltage | V | 230/400 | |
| Revolution Per Minute | r.p.m | 1500 | |
| Rated at Power Factor | Q | 0.8 | |

STANDBY POWER : Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

PRIME POWER : It is the continuous operating power under variable load. According to ISO 3046, 10% overload is allowed for 12 hours of operation.



STANDARD FEATURES

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
- Protection system on manual run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- 4 Poles, synchron type, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual

OPTIONAL EQUIPMENTS

- Sound proof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer
- External fuel tank
- Heating system for fuel tank
- Oil heater
- Fuel filling system
- Automatic / Manual
- Analog indicators
- 1 Phase – 3 Phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

DIMENSIONS AND WEIGHT



Length(L): 1600 mm

Height (H): 1000 mm

Width (W): 900 mm

Weight (Kg): 480 kg

Fuel Tank Capacity (L): 65 L

DIMENSIONS AND WEIGHT



Length (L): 1950 mm

Height(H): 1200 mm

Width (W): 900 mm

Weight (Kg): 605 kg

Fuel Tank Capacity (L): 65 L

ENGINE SPECIFICATIONS

| | | | | | |
|-------------------------|-----------|---------------------|------------------------------|--------|------|
| Brand | | YANGDONG | Electrical system | VDC | 12 |
| Model | | YD480 | Mineral oil capacity | L | 6,7 |
| Engine Power Stand by | (kWh /hp) | 16 / 22 | Coolant capacity | L | 7,6 |
| Revolution Per Minute | (r.p.m) | 1500 | Fuel tank capacity | L | 65 |
| Total Displacement | (L) | 1,809 | Max. exhaust gas temperature | °C | 470 |
| Cylinders Orientation | | 4 SINGLE ROW | Max. exhaust gas flow | M3/h | 2,13 |
| Bore * Stroke | (mm xmm) | 80 X 90 | Max. back pressure | kPa | 3,3 |
| Compression Orientation | | 18:01 | Cooling fan flow | M3/min | 125 |
| Governor Type | | Mechanical | Fuel consumption 50% | L/h | 2,3 |
| Aspiration System | | Natural | Fuel consumption 75% | L/h | 3,4 |
| Spray Pattern | | Mechanical | Fuel consumption 100% | L/h | 4,6 |
| Cooling | | Water Cooled | | | |

· Replaceable wet cylinder liners

· Dry type replaceable air filter

· Radiator that can cool up to 50 °C

ALTERNATOR FEATURES

| | | | | | |
|------------------------|----|----------------------|---------------------------------|-------|------------------------|
| Output Voltage | V | 230 /400 | Overload Runtime | | %110 for 1 hour |
| Frequency | Hz | 50 | Power Factor | | 0,8 |
| Permanent Voltage Reg. | ± | %1 | Total Harmonic Distortion Ratio | Cos Q | < %1 |
| Short Circuit Current | | %300 (10 dk.) | Connection style | | STAR |
| Insulation | | H | Number of Poles | | 4 |
| Protection Class | | IP 23 | Number of Beds | | ONLY |
| Yield | % | 88 | | | |

· 4-pole, self-excited and cooled, brushless synchronous alternator · Electronic type automatic voltage regulator (YES)

CONTROL PANEL FEATURES

- Diesel and gas generator support
- 400 Hz generator support
- 400x measurement values
- All parameters can be changed from the front panel
- 3-level program password
- 128x64 pixel graphic LCD
- Language installation
- Current-voltage waveform
- Current-voltage harmonic analysis
- Synchroscope and sync relay
- 16 Amp / 250V ŞK / JK outputs
- 8 programmable digital inputs
- Entries can be increased to 40
- 4 programmable analog inputs
- CANBUS-J1939 & MPU input
- 3 programmed service alarms
- Multiple automatic test report
- weekly work schedule
- Dual generator support, equal aging
- Fine speed tuning (some ECUs)
- Automatic fuel pump control
- Protections cancellation feature
- Over power protection
- Reverse power protection
- Overcurrent IDMT protection
- Load shedding dummy load
- Multiple load shedding programs
- Current unbalance protection
- Voltage imbalance protection
- Fuel filling and fuel run alarms
- Battery powered real time clock
- Idle speed control
- Battery charging work
- Multiple nominal requirement definitions
- Contactor+motorized switch driving
- 4 quarter energy meters
- Grid energy meters
- Fuel meter
- Fuel consumption meter
- Modem & Ethernet pages
- Parameter setting via USB, RS-485 Ethernet and GPRS
- Possibility of control via SMS
- Mobile generator support
- Automatic GSM geolocation
- GPS connection (USB and RS232)
- Dynamic ONS support
- Downloading software via USB
- IP65 protection with standard gasket
- Battle mode support