

| GENERATING RATES | | PRIME | STANDBY |
|-----------------------|--------|---------|---------|
| Power | KVA | 31 | 34 |
| Power | KW | 25 | 27 |
| Current | A | 44 | 49 |
| Standard Voltage | V | 400/230 | |
| Revolution Per Minute | r.p.m. | 1500 | |
| Rated at Power Factor | Cos 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.



STANDART 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

ENGINE SPECIFICATIONS

| | | |
|-------------------------------|------------|---------------|
| Brand | | YANGDONG |
| Model | | Y490B |
| Engine Power Stand BY | (kWm / hp) | 27/36 |
| Revolution Per Minute | (r.p.m.) | 1500 |
| Total Displacement | (L) | 2,54 |
| Cylinders Orientation | | 4 SINGLE LINE |
| Bore x Stroke | (mm x mm) | 90 x 100 |
| Compression Orientation | | 16:01 |
| Governor Type | | MECANICAL |
| Aspiration System | | TURBOCHARGE |
| Injection | | DIRECT |
| Cooling | | WATER COOLED |
| Electrical System | (VDC) | 12 |
| Lub-Oil Capacity | (L) | 7,6 |
| Engine Coolant Capacity | (L) | 9 |
| Fuel Tank Capacity | (L) | 65 |
| Maximum Exhaust Temperature | (°C) | 470 |
| Maximum Exhaust Gas Flow | (m3/h) | 2,13 |
| Maximum Allowed Back Pressure | (kPa) | 3,3 |
| Cooling Air Flow | (m3/min) | 125 |
| Fuel Consumption 50 % | (L/h) | 3,9 |
| Fuel Consumption 75 % | (L/h) | 5,8 |
| Fuel Consumption 100 % | (L/h) | 7,7 |

- Replaceable cylinder jacket • Dry type replaceable oil filter • Heat-resistant radiator for 50 °C

ALTERNATOR SPECIFICATIONS

| | | |
|--------------------------------|---------|------------------|
| Output Voltage | (V) | 230/400 |
| Frequency | (Hz) | 50 |
| Stationary Voltage Regulation | (±) | 1% |
| Short Circuit Current | | %300 (10 MIN.) |
| Insulation | | H |
| Protection | | IP 23 |
| Efficiency | (%) | 88 |
| Overloading | | % 110 FOR 1 HOUR |
| Power Factor | | 0.8 |
| Total Harmonic Distortion Rate | (cos Q) | < 1 % |
| Connection Type | | STAR |
| Number Of Pole | | 4 |
| Number Of Bearing | | SINGLE |

- 4 Poles, Self-Excitation and Self-Cooled, Brushless, Synchronotype alternator • Electronic type automatic voltage regulator (AVR)

CONTROL PANEL FEATURE

- 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 language
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- 16 Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of genset
- 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 fulling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant genset power counters
- Main power counters
- Fuel fulling counter
- Fuel consumption counter
- Modem & Ethernet diagnostic
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allow SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity [USB and RS232]
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket
- Multiple nominal conditions

DIMENSIONS AND WEIGHT



| | | |
|--------------------|----|------|
| Lenght (L) | mm | 1600 |
| Height (H) | mm | 1000 |
| Width (W) | mm | 900 |
| Wet weight | kg | 480 |
| Fuel Tank Capacity | L | 65 |

DIMENSIONS AND WEIGHT



| | | |
|--------------------|----|------|
| Lenght (L) | mm | 1950 |
| Height (H) | mm | 1200 |
| Width (W) | mm | 900 |
| Wet weight | kg | 605 |
| Fuel Tank Capacity | L | 65 |