



WATER COOLED



THREE PHASE



50 Hz



DIESEL

Generating Rates

| Services | | PRP | STANDBY |
|-----------------------|---------|-----------|---------|
| Power | kVA | 40 | 44 |
| Power | kW | 32 | 35 |
| Current | A | 58 | 63.5 |
| Standard Voltage | V | 230 / 400 | |
| Revolution Per Minute | r.p.m | 1500 | |
| Rated at power factor | Cos Phi | 0,8 | |

Standard Features

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
- Protection system on manuel run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- 4 Poles, synchrontype, 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

- Soundproof canopy
- Automatic transfer switch
- Circuit breaker
- Trailer
- External fuel tank
- Electronic governor
- Heating system for fuel tank
- Oil heater
- Fuel filling system (Automatic / Manuel)
- Analog indicators
- 1 Phase - 3 Phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

Stand By 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 : Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. 10% over load capability is available.

Engine Specifications**Diesel Engine**

| | | |
|-------------------------------|----------|---------------|
| Brand | | ALPHA R |
| Model | | K4102D1-1 |
| Engine Power Stand BY | kWm / hp | 46-61 |
| Revolution Per Minute | r.p.m | 1500 |
| Total Displacement | L | 3.61 |
| Cylinders Orientation | | 4 SINGLE LINE |
| Bore x Stroke | mm x mm | 102*115 |
| Compression Orientation | | 19:01 |
| Governor Type | | MECHANIC |
| Aspiration System | | TURBO CHARGE |
| Injection | | DIRECT |
| Cooling | | WATER COOLED |
| Electrical System | VDC | 12 |
| Lub-Oil Capacity | L | 13 |
| Engine Coolant Capacity | L | 6.5 |
| Fuel Tank Capacity | L | 176 |
| Maximum Exhaust Temperature | °C | 600 |
| Maximum Exhaust Gas Flow | m3 / H | 2.9 |
| Maximum Allowed Back Pressure | kPa | 3.3 |
| Cooling Air Flow | m3 / H | 125 |
| Fuel Consumption 50 % | L / h | 5.8 |
| Fuel Consumption 75 % | L / h | 9.2 |
| Fuel Consumption 100 % | L / h | 12 |

• Replacable cylinder jacket • Dry type replacable oil filter • Heat-resistant radiator for 50 °C

Alternator Specifications**Alternator**

| | | |
|--------------------------------|-----------|------------------|
| Output Voltage | V | 400/230 |
| Frequency | Hz | 50 |
| Stationary Voltage Regulation | ± | 1 % |
| Short Circuit Current | | >300% |
| Insulation | | H |
| Protection | | IP 23 |
| Efficiency | % | 86,8 |
| Overloading | | 110 % FOR 1 HOUR |
| Power Factor | cos Q=0,8 | 0.8 |
| Total Harmonic Distortion Rate | | <2% |
| Connection Type | | STAR |
| Number Of Pole | | 4 |
| Number Of Bearing | | SINGLE |

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

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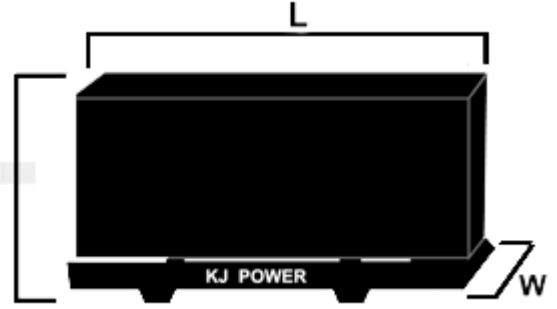
Dimensions Without Canopy

| Dimensions and Weight | | |
|-----------------------|----|------|
| Length (L) | mm | 2100 |
| Height (H) | mm | 1700 |
| Width (W) | mm | 1000 |
| Wet weight | Kg | 750 |
| Fuel Tank Capacity | L | 176 |



Dimensions With Canopy

| Dimensions and Weight | | |
|-----------------------|----|------|
| Length (L) | mm | 2400 |
| Height (H) | mm | 1800 |
| Width (W) | mm | 1000 |
| Wet weight | Kg | 970 |
| Fuel Tank Capacity | L | 176 |



Control Panel Features

- 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
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple nominal conditions
- 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 charge0 run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem & Ethernet diagnostics
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (USB & RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket

