

| Generating Rates      |                 | Prime   | Standby |
|-----------------------|-----------------|---------|---------|
| Power                 | kVA             | 1727    | 1900    |
| Power                 | kW              | 1382    | 1520    |
| Current               | (cos Phi=0,8) A | 2502    | 2746    |
| Standard Voltage      | V               | 400/231 | 400/231 |
| Revolution Per Minute | r.p.m           | 1500    | 1500    |
| Rated At Power Factor | Cos Phi         | 0,8     | 0,8     |

### Standard Features

- ✓ 4 stroke 1500RPM, water cooled heavy duty diesel engine
- ✓ Dry type replacable air filter
- ✓ Heat-resistant radiator for 50 °C
- ✓ Flexible oil pipes and oil draining valve
- ✓ Pre-heater 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
- ✓ Protection system on manual run
- ✓ Lubrication oil and anti – freeze

### 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 / Manual)
- ✓ Analog indicators
- ✓ 1 Phase - 3 phase switch plugs
- ✓ Alarm system for fuel level
- ✓ Remote control and monitoring

**Prime Power :** Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility powerfailure according to ISO8528-1. 10% over load capability is available.

**Stand By Power :** Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO8528-1. This rating is maximum power, no overload capability is available.

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲

### Engine Specifications

|                               |            |                       |
|-------------------------------|------------|-----------------------|
| Brand                         |            | PERKINS               |
| Model                         |            | 4012-46TAG3A          |
| Engine Power                  | (kWm / hp) | 1583/2123             |
| Revolution Per Min            | (r.p.m)    | 1500                  |
| Total Displacement            | (L)        | 45,84                 |
| Cylinders Orientation         |            | 12 Cylinders - V type |
| Broke x Stroke                | (mm x mm)  | 160 x 190             |
| Compression Orientation       |            | 13 : 1                |
| Governor Type                 |            | Electronic            |
| Aspiration System             |            | Turbo AAC             |
| Injection                     |            | Direct                |
| Cooling                       |            | Water Cooled          |
| Electrical System             | (VDC)      | 24                    |
| Lub-oil Capacity              | (L)        | 177                   |
| Engine Coolant Capacity       | (L)        | 207                   |
| Fuel Tank Capacity            | (L)        | External Tank         |
| Maximum Exhaust Temperature   | (°C)       | 455                   |
| Maximum Exhaust Gas Flow      | (m3/h)     | 226                   |
| Maximum Allowed Back Pressure | (kPa)      | 32                    |
| Cooling Air Flow              | (m3/min)   | 2004                  |
| Fuel Consumption 50 %         | (L/h)      | 187                   |
| Fuel Consumption 75 %         | (L/h)      | 275                   |
| Fuel Consumption 100 %        | (L/h)      | 370                   |

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

### Alternator Specifications

|                                |           |               |
|--------------------------------|-----------|---------------|
| Standard Voltage               | (V)       | 400/231       |
| Frequency                      | (Hz)      | 50            |
| Stationary Voltage Regulation  | (±)       | 1             |
| Short Circuit Current          |           | 300           |
| Insulation                     |           | H             |
| Protection                     |           | IP 23         |
| Efficiency                     | (%)       | 96,1          |
| Overloading                    |           | 1 Hour - %110 |
| Rated At Power Factor          | (cos Phi) | 0,8           |
| Total Harmonic Distortion Rate |           | 2             |
| Connection Style               |           | Star          |
| Number of Pole                 |           | 4             |
| Number of Bearing              |           | Single        |

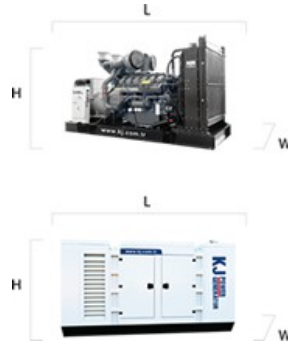
- Self-cooled
- Electronic type automatic voltage regulator (AVR)
- 4 poles, self-excitation, brushless, synchrontype alternator

### Dimensions Without Canopy and Weight

|                         |    |                |
|-------------------------|----|----------------|
| WIDTH x LENGTH x HEIGHT | mm | 2200x5250x2620 |
| Wet Weight              | kg | 10245          |

### Dimensions With Canopy and Weight

|                         |    |                |
|-------------------------|----|----------------|
| WIDTH x LENGTH x HEIGHT | mm | 2200x6500x3000 |
| Wet Weight              | kg | *              |



### Control Panel Features

- ✔ Diesel and gas genset support
- ✔ 400Hz operation support
- ✔ 400 event logs full snapshot
- ✔ Multiple Automatic test program
- ✔ 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
- ✔ 4 configurable analog outputs
- ✔ Battery charge run enabled
- ✔ Weekly Operation Schedule
- ✔ Dual mutual standby with equal aging of gensets
- ✔ Manual speed fine adjust some ECU's
- ✔ Automatic fuel pumpcontrol
- ✔ Disable protection feature
- ✔ Excess protection power
- ✔ Reverse power protection
- ✔ Overload IDMT protection
- ✔ Load shedding, dummy load
- ✔ Multiple load management
- ✔ Waveform display of V&I
- ✔ Battery back-up real time clock
- ✔ Idle speed control
- ✔ All parameters front panel editable
- ✔ Multiple nominal conditions
- ✔ Contactor & MCB drive
- ✔ 4 quadrant genset power counters
- ✔ Mains power counters
- ✔ Fuel filling counter
- ✔ Fuel consumption counter
- ✔ Free configuration software
- ✔ Allow SMS controls
- ✔ Mobile genset support
- ✔ Automatic GSM geo-location
- ✔ GPS connectivity (USB & RS232)
- ✔ Modem & ethernet diagnostic
- ✔ Configurable through USB, RS-485, Ethernet and GPRS
- ✔ Ready for central monitoring Ethernet and GPRS