

## Generator Model

## APK-P1900

| Generator Rating      |         | Prime           | Standby |
|-----------------------|---------|-----------------|---------|
| Power                 | kVA     | 1727            | 1900    |
| Power                 | kW      | 1382            | 1520    |
| Current               | A       | 2502            | 2746    |
| Standard Voltage      | V       | 400/230 3 Phase |         |
| 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
- Automatic or manual start with built in protection system
- Flexible oil pipes and oil drain valve
- Pre-heater and water heater
- Lubrication oil and anti-freeze
- 4 Pole, synchro type, single bearing, brushless alternator
- Fully rated batteries and cables
- Base or roof lifting points
- Bunded base fuel tank
- Industrial rated silencer
- Electronic battery charger
- EPO (Emergency Push Off)
- 3 or 4 pole output breaker
- Electrical wiring diagram
- User manual and operating manual

### Optional Features

- 3 or 4 pole Automatic Transfer panel (ATS) electrically and mechanically interlocked
- Remote alarm volt free contacts
- Remote monitoring (RS232 / RS485)
- G99 Operation
- Battery isolator
- Canopy colour
- Low noise canopy down to 65dBA
- Parallel operation
- Residential silencer
- Air flow variations
- Extended fuel tank
- Remote fuel tank with/without automatic day tank fill system

### Additional Services Available

- Site surveys
- Hiab delivery
- Generator positioning
- Air handling and exhaust extension supply and installation
- Commissioning
- Maintenance contract

**Prime Power:** Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure according to ISO85281. 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 ISO85281. This rating is maximum power, no overload capability is available.

## Engine Specification

|                               |            |              |
|-------------------------------|------------|--------------|
| Brand                         |            | PERKINS      |
| Model                         |            | 4012-46TAG3A |
| Engine Power Stand By         | (kWm / hp) | 1583/2123    |
| Revolution Per Minute         | (R.P.M)    | 1500         |
| Total Displacement            | (L)        | 45.48        |
| Cylinders Orientation         |            | 12 V type    |
| Bore 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)        | NA           |
| Maximum Exhaust Temperature   | (°C)       | 480          |
| Maximum Exhaust Gas Flow      | (m3/min)   | 350          |
| 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          |

## Alternator Specification

|                                |           |                 |
|--------------------------------|-----------|-----------------|
| Standard Voltage               | (V)       | 400/230         |
| Frequency                      | (Hz)      | 50              |
| Stationary Voltage Regulation  | (±)       | 1%              |
| Short Circuit Current          |           | >300%           |
| Insulation                     |           | H/H             |
| Protection                     |           | IP 23           |
| Efficiency                     | (%)       | 96.1            |
| Overloading                    |           | 110% For 1 Hour |
| Power Factor                   | (cos Phi) | 0.8             |
| Total Harmonic Distortion rate |           | THF <2%         |
| Connection Type                |           | Star            |
| Number of poles                |           | 4               |
| Number of Bearings             |           | Single          |

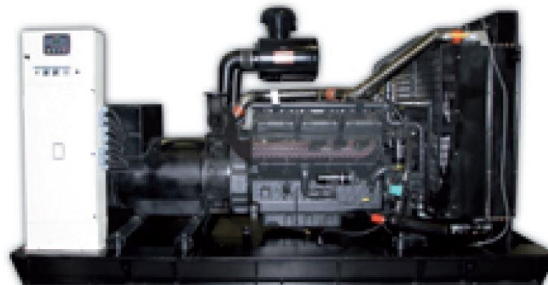
[www.abilitypower.co.uk](http://www.abilitypower.co.uk)

## Dimensions with canopy

|                    |    |       |
|--------------------|----|-------|
| Length (L)         | mm | 6500  |
| Height (H)         | mm | 3000  |
| Width (W)          | mm | 2200  |
| Wet Weight         | kg | 12350 |
| Fuel Tank Capacity | L  | NA    |

## Dimensions without Canopy

|                    |    |       |
|--------------------|----|-------|
| Length (L)         | mm | 5250  |
| Height (H)         | mm | 2620  |
| Width (W)          | mm | 2200  |
| Wet Weight         | kg | 10250 |
| Fuel Tank Capacity | L  | NA    |



Please note above images are an example actual unit may vary

## Standard D500 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
- Synchro scope & check synch
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analogue 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 charge run enabled
- 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