

Generator Model

APK: DD15(230V)

| Generator Rating | | Prime | Standby |
|-----------------------|---------|------------------|---------|
| Power | kVA | 14 | 15 |
| Power | kW | 11 | 12 |
| Current | A | 59 | 65 |
| Standard Voltage | V | 230 Single 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% overload 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 | | AP-DD |
| Model | | 480 D |
| Engine Power Stand By | (kWm / hp) | 14/19 |
| Revolution Per Minute | (R.P.M) | 1500 |
| Total Displacement | (L) | 1.809 |
| Cylinders Orientation | | 4 Vertical inline |
| Bore x Stroke | (mm x mm) | 80 x 90 |
| Compression Orientation | | 18:1 |
| Governor Type | | Mechanical |
| Aspiration System | | Natural |
| Injection | | Direct |
| Cooling | | Water Cooled |
| Electrical System | (VDC) | 12 |
| Lub-Oil Capacity | (L) | 8 |
| Engine Coolant Capacity | (L) | 12 |
| Fuel Tank Capacity | (L) | 51 |
| Maximum Exhaust Temperature | (°C) | 550 |
| Maximum Exhaust Gas Flow | (m3/hr) | 93 |
| Maximum Allowed Back Pressure | (kPa) | 6 |
| Cooling Air Flow | (m3/min) | 6.3 |
| Fuel Consumption 50% | (L/h) | 2 |
| Fuel Consumption 75% | (L/h) | 3.4 |
| Fuel Consumption 100% | (L/h) | 4.1 |

Alternator Specification

| | | |
|--------------------------------|-----------|-----------------|
| Standard Voltage | (V) | 230 |
| Frequency | (Hz) | 50 |
| Stationary Voltage Regulation | (±) | 1% |
| Short Circuit Current | | >300% |
| Insulation | | H/H |
| Protection | | IP 23 |
| Efficiency | (%) | 86.6 |
| Overloading | | 110% For 1 Hour |
| Power Factor | (cos Phi) | 1 |
| Total Harmonic Distortion rate | | THF <2% |
| Connection Type | | Delta |
| Number of poles | | 4 |
| Number of Bearings | | Single |

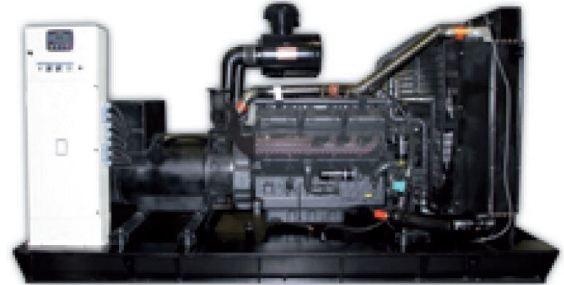
www.abilitypower.co.uk

Dimensions with canopy

| | | |
|--------------------|----|------|
| Length (L) | mm | 1385 |
| Height (H) | mm | 1190 |
| Width (W) | mm | 850 |
| Wet Weight | kg | 520 |
| Fuel Tank Capacity | L | 52 |

Dimensions without Canopy

| | | |
|--------------------|----|------|
| Length (L) | mm | 1385 |
| Height (H) | mm | 1190 |
| Width (W) | mm | 850 |
| Wet Weight | kg | 435 |
| Fuel Tank Capacity | L | 52 |



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