

Generator Model

APK-DD50

Generator Rating		Prime	Standby
Power	kVA	45	50
Power	kW	36	40
Current	A	65	72
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% 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		4JR3AD
Engine Power Stand By	(kWm / hp)	44/59
Revolution Per Minute	(R.P.M)	1500
Total Displacement	(L)	
Cylinders Orientation		4 Vertical inline
Bore x Stroke	(mm x mm)	105 x 135
Compression Orientation		17:1
Governor Type		Mechanical
Aspiration System		Natural
Injection		Direct
Cooling		Water Cooled
Electrical System	(VDC)	12
Lub-Oil Capacity	(L)	12
Engine Coolant Capacity	(L)	15
Fuel Tank Capacity	(L)	181
Maximum Exhaust Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/hr)	
Maximum Allowed Back Pressure	(kPa)	
Cooling Air Flow	(m3/min)	
Fuel Consumption 50%	(L/h)	4.9
Fuel Consumption 75%	(L/h)	8
Fuel Consumption 100%	(L/h)	10.2

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	(%)	86.6
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

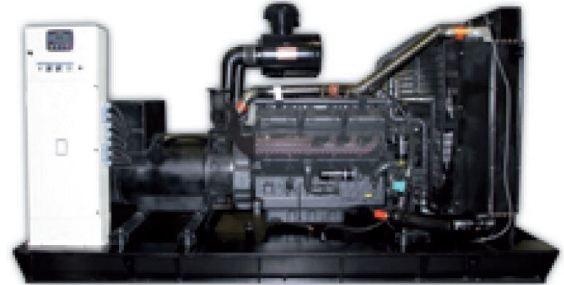
www.abilitypower.co.uk

Dimensions with canopy

Length (L)	mm	2400
Height (H)	mm	1800
Width (W)	mm	1000
Wet Weight	kg	1175
Fuel Tank Capacity	L	181

Dimensions without Canopy

Length (L)	mm	2000
Height (H)	mm	1700
Width (W)	mm	1000
Wet Weight	kg	895
Fuel Tank Capacity	L	181



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