

## Secure your future Power Suppliers of Diesel Generators, UPS and other power products

## **Generator Model**

### APK-DD31

Generat	or Rating	Prime	Standby
Power	kVA	28	31
Power	kW	23	25
Current	A	40	45
Standard Voltage	V	400/23	0 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
- 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.

Ability Power Limited Old Hakin Road Merlins Bridge Haverfordwest Pembs, SA61 1XE

Tel: +44 (0)1437 766984

sales@abilitypower.co.uk

www.abilitypower.co.uk

Registered No. 705 8344 36

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Engine Specification					
Brand		DIAMOND DIESEL			
Model		498 D			
Engine Power Stand By	(kWm / hp)	25/34			
Revolution Per Minute	(R.P.M)	1500			
Total Displacement	(L)	2.98			
Cylinders Orientation		4 Vertical inline			
Bore x Stroke	(mm x mm)	98 x 105			
Compression Orientation		18:1			
Governor Type		Mechanical			
Aspiration System		Natural			
Injection		Direct			
Cooling		Water Cooled			
Electrical System	(VDC)	12			
Lub-Oil Capacity	(L)	9			
Engine Coolant Capacity	(L)	14			
Fuel Tank Capacity	(L)	62			
Maximum Exhaust Temperature	(°C)	550			
Maximum Exhaust Gas Flow	(m3/hr)	166			
Maximum Allowed Back Pressure	(kPa)	6			
Cooling Air Flow	(m3/min)	7			
Fuel Consumption 50%	(L/h)	3.5			
Fuel Consumption 75%	(L/h)	5.2			
Fuel Consumption 100%	(L/h)	7.1			

Alternator Specification		ire Power	
Standard Voltage	(V)	400/230	
Frequency	(Hz)	50	
Stationary Voltage Regulation	( <u>+</u> )	1% TELEFATORS,	
Short Circuit Current		>300%	
Insulation	nower	HAROLICIS	
Protection	POVVOI	IP 23	
Efficiency	(%)	86.2	
Overloading		110% For 1 Hour	
Power Factor	(cos Phi)	0.8	
Total Harmonic Distortion rate	143/	THF <2%	
Connection Type		Star	
Number of poles	abilitum	4	
Number of Bearings		Single Cl. CO. U.S.	

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Dimensions with canopy				
Length (L)	mm	2000		
Height (H)	mm	1450		
Width (W)	mm	950		
Wet Weight	kg	970		
Fuel Tank Capacity	L	62		

Dimensions without Canopy				
Length (L)	mm	1500		
Height (H)	mm	1450		
Width (W)	mm	950		
Wet Weight	kg	760		
Fuel Tank Capacity	L	62		





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
- Fuel filing & fuel theft alarms
- Battery back-up real time clock

Voltage unbalance protection

- Idle speed control
- Battery charge run enabled

- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filing 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

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