

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

### **Generator Model**

### **APK-D485**

Generat	or Rating	F		Prime		Standby	
Power	kVA		1	441		485	
Power	kW			353		388	
Current	A			637		700	
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
- 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 survevs
- 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.

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Engine Specification		
Brand		DOOSAN
Model		DP158LE
Engine Power Stand By	(kWm / hp)	398/541
Revolution Per Minute	(R.P.M)	1500
Total Displacement	(L)	14.62
Cylinders Orientation		8 V-type
Bore x Stroke	(mm x mm)	128 x 142
Compression Orientation		15:1
Governor Type		Electronic
Aspiration System		Turbo CAC
Injection		Direct
Cooling		Water Cooled
Electrical System	(VDC)	24
Lub-Oil Capacity	(L)	21
Engine Coolant Capacity	(L)	80
Fuel Tank Capacity	(L)	790
Maximum Exhaust Temperature	(°C)	503
Maximum Exhaust Gas Flow	(m3/min)	80.1
Maximum Allowed Back Pressure	(kPa)	5.9
Cooling Air Flow	(m3/min)	522
Fuel Consumption 50%	(L/h)	43.9
Fuel Consumption 75%	(L/h)	65.1
Fuel Consumption 100%	(L/h)	89.3

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	HAROLICTS	
Protection	POVVOI	IP 23	
Efficiency	(%)	93.6	
Overloading		110% For 1 Hour	
Power Factor	(cos Phi)	0.8	
Total Harmonic Distortion rate	143/	THF <2%	
Connection Type	1 101	Star	
Number of poles	abilitum	4	
Number of Bearings		Single Cl. CO. UK	

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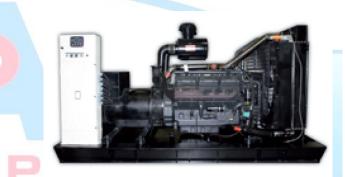


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Dimensions with canopy				
Length (L)	mm	4150		
Height (H)	mm	2550		
Width (W)	mm	1600		
Wet Weight	kg	3950		
Fuel Tank Capacity	L	790		

Dimensions without Canopy				
Length (L)	mm	3300		
Height (H)	mm	2550		
Width (W)	mm	1600		
Wet Weight	kg	3050		
Fuel Tank Capacity	L	790		





### 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 filing & 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 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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