

APD 2500

2.5kVA Generator Set

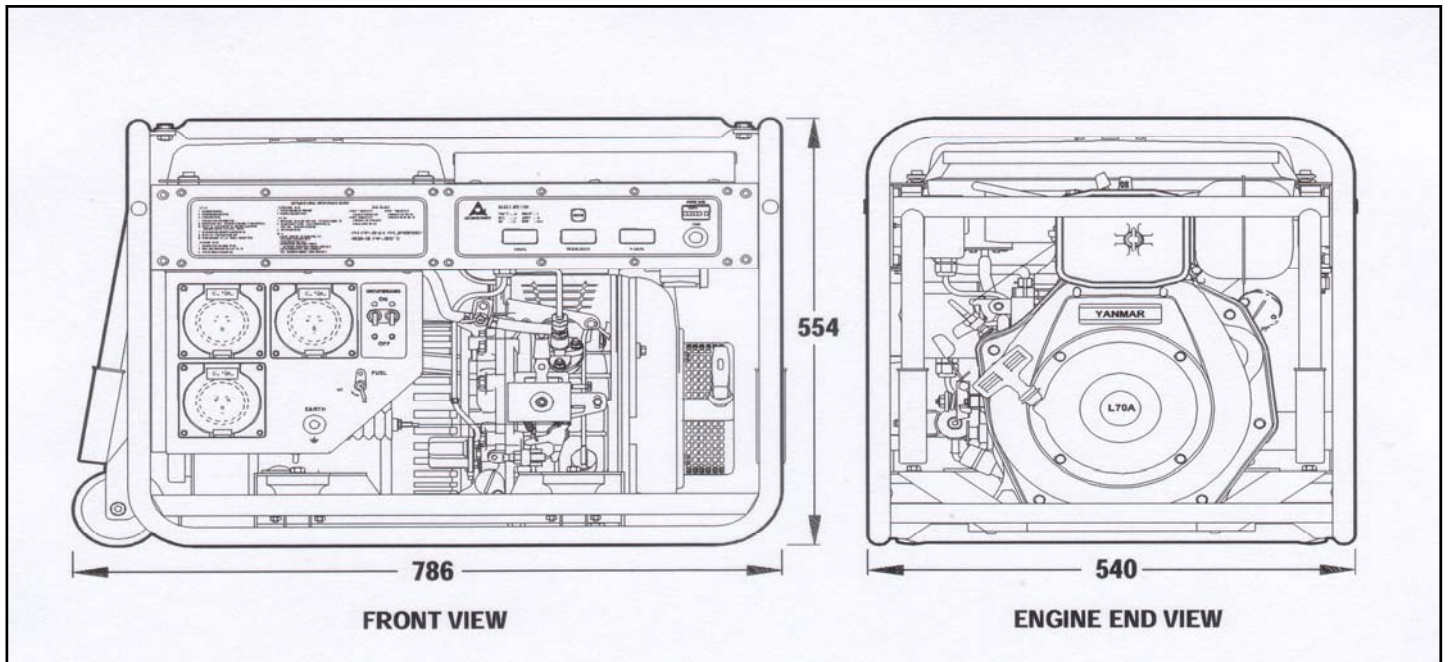
230 to 250 V AC, Single Phase, 50Hz



- Durability** Constructed for rugged conditions and developed to stringent military requirements for the Australian Army, the APD 2500 has undergone comprehensive testing and survived extremes in temperature, humidity, salt laden atmospheres, vibration and drop tests.
- Power Output** The APD 2500 is a portable field deployable diesel generator capable of delivering 2.5kVA for any application in the harshest of environmental conditions. There are three easily accessible 15 A single phase outlets. The APD 2500 has exceptional motor starting capability, being able to start motors of rated horsepower per generated kilowatt.
- Power Quality** The APD 2500 provides exceptional power quality which exceeds the military requirements of QSTAG299 under all load conditions. Low harmonics make it ideal to supply power to sensitive electronic equipment such as radios and computers. Precise voltage regulation is achieved using digital technology and real RMS sensing to maintain the output voltage to within 1.0% of its preset value.
- Portability** The APD 2500 can be moved by one person, wheelbarrow fashion on its wheels, or lifted and carried by two people using the fold away handles.
- Reliability** The microprocessor based control system has proven to be a most reliable method of regulating output voltage, displaying power values and monitoring all areas of the generator. If a fault occurs the equipment is shut down before any damage is caused. A diagnostic message appears on the control panel indicating what fault caused the shutdown. A dependable diesel engine provides the highest efficiency and effortless starting.
- Easy to Use** The APD 2500 is easy to start using either electric or manual recoil start. The control panel gives readouts of Volts, Load % and Frequency in an LED digital display. The display has an auto off mode, or can be dimmed manually in tactical situations.
- Maintenance** Modular design allows for rapid fault diagnosis and repair in the field by module replacement. Minimal servicing is required with scheduled maintenance only once every 100 hours. Non technical operators can perform all minor preventative and scheduled maintenance using only the tools supplies in the accessory box, which also contains spare fuel and air filters, oil strainer, earth spike and the user manual. A complete workshop manual and spare parts book written to comply with DEF(AUST) 5629A is also available.

Advanced Power

An Australian company highly experienced in the design and manufacture of military power equipment to any requirement



Data Summary - APD 2500, 2.5 kVA Generator Set

Dimensions and Mass		Electrical	
Frame length	750mm	Alternator:	
Including wheels	786mm	Make	Advanced Power
Handles fully extended	1370mm	Type	Model FB3P-80/2
Width overall	540mm	Voltage output (nominal)	230 - 250 VAC +/- 1%
Height overall (excluding lifting eye)	554mm	Current output (100%)	10 A @ unity or 0.8 pf
Weight with fuel & oil	125kg	Output frequency	50 Hz +/- 2 %
Engine		Outlets	3 x 15 A (IP66)
Manufacturer	Yanmar	Overload circuit breaker	12 A
Model	70AE-DEGTM	Environment	
Type	4 stroke diesel	Noise level	81 dB(A) at 7m
Cooling system	Forced air by fan	EMC suppression	To MIL STD 461C
Combustion system	Naturally aspirated direct injection	Maximum amb temp	44°C with solar (1150 W/m 2)
Starting system	Recoil starter or 12V electric start facility	Altitude rating	2.5kVA at 1500 m at 38°C
Displacement	296cc	Protection	
Number of cylinders	One	Over - voltage	> 275 V for 1 sec
Bore x stroke	78 x 62 mm	Low - voltage	< 218 V for 3 sec
Output (@ ISO3046/1) at 3000rpm	4.3 kW	Over - speed	53 Hz for 2 sec
Oil capacity	1.1 litres	Under - speed	45 Hz for 2 sec
Effective fuel tank capacity	10.85 litres	Low oil pressure	Cut - off after 3 sec
Fuel type	Automotive diesel	Over - current	12 A circuit breaker
Fuel consumption at full load	1.0 L/h	Alternator over - temp	Cut - off after 3 sec



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