

APD 1300

1.3 kW Generator Set

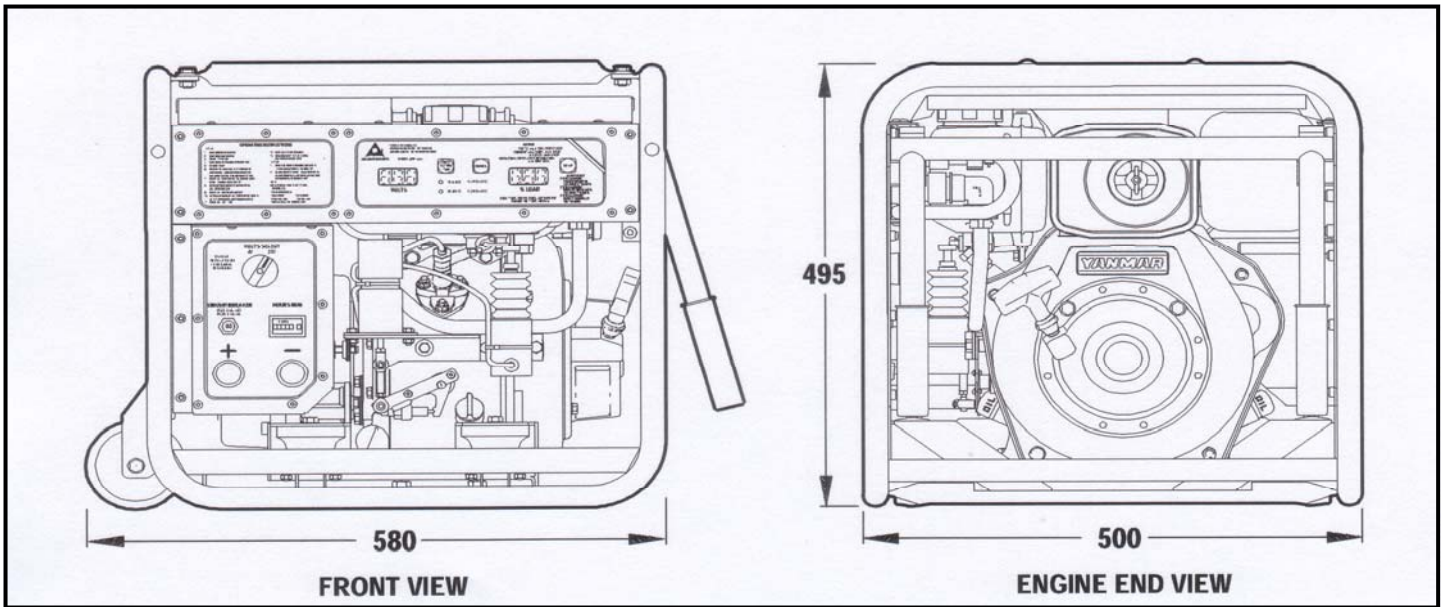
14 or 28V DC, 45 Amps



- Durability** Constructed for rugged conditions and developed to stringent military requirements for the Australian Army, the APD 1300 has undergone comprehensive testing and survived extremes in temperature, humidity, salt laden atmospheres, vibration, and drop tests.
- Power Output** The APD 1300 is a portable field deployable diesel generator capable of delivering 1.3 kW for any application in the harshest of environmental conditions. Output is switchable between nominal 14 V DC and 28 V DC, at selectable voltages to charge vented or sealed lead-acid batteries. Current delivery is 45 A continuous, 65 A maximum.
- Power Quality** The APD 1300 provides exceptional power quality which exceeds the military requirements of QSTAG299 under all load conditions. Low ripple makes it ideal for supplying DC power as well as for charging 12 and 24 V batteries. Precise voltage regulation is achieved using digital technology to maintain the output voltage to within 1.0% of its preset value.
- Portability** The APD 1300 can be moved by one person, wheelbarrow fashion on its wheels, or lifted and carried by two people using the fold away handles.
- Efficiency** Advanced Power design technology provides variable engine speed for power delivered which further reduces fuel consumption at low loads and increase engine speed.
- 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 1300 is easy to start using the engine decompression lever and manual recoil starter. The control panel gives readouts of Volts, Load % and Sealed or Vented battery charge mode 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 supplied in the accessory box which also contains spare fuel and air filters, oil strainer, 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 1300, 1.3 kW Generator Set

Dimensions and Mass		Electrical	
Frame length (including wheels)	580mm	Alternator:	
Handles fully extended	1100mm	Make	Advanced Power
Width overall	500mm	Type	Model 1300W
Height overall	495mm	Voltage output (nominal)	14/28 VDC
Weight with fuel & oil	72.3kg	Current output	45 A (cont. 100%), 65 A (max. 144%)
Engine		Outlets	Positive & negative screw terminals
Manufacturer	Yanmar	Overload circuit breaker	80A
Model	L48AE-DG	Environment	
Type	4 stroke diesel	Noise level	79 dB (A) at 7 m
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	Altitude rating	1.3 kW at 1500 at 38°C
Displacement	211cc	Protection	
Number of cylinders	One	Over-voltage:	
Bore x stroke	70 x 55 mm	28 V mode	>36 V for 1 sec
Output (@ ISO 3046/1) at 3000 rpm	2.8 kW continuous, 3.1 kW maximum	14 V mode	>18 V for 1 sec
Oil capacity	0.8 litres	Over-speed cut-off	3900 rpm for 200 ms
Fuel tank capacity	2.5 litres	Under-speed cut-off	1000 rpm for 5 sec
Fuel type	Automotive diesel	Low oil pressure	Cut-off after 3 sec
Fuel consumption a full load	0.5 L/h	Over-current	80 A circuit breaker
		Alternator over-temp cut-off	125°C after 3 sec



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