



ENIQUEST
AUSTRALIAN MADE DIESEL GENERATORS



RANGER 4500

4.5 kVA SEMI ENCLOSED DIESEL GENERATOR

ISO 9001 CERTIFIED



Powered by



Worlds Best Small Diesel Generator

Extremely Compact | Simple Design | Low Speed | Highly Efficient | Better Motor Starting
Specially developed for agricultural pumping, irrigation and reliable support power

Here at Enquest, we have experience in some of the most engineering challenging designs that any generator company has had to endure. We are well known for our ability to adapt and create a product tailored to suit a customers needs.

Originally called Watts2C back in 2004, the brand changed to Enquest in 2011 when we diversified our product range. Don Pulver the director of Enquest has been in the power generation business for over 40 years. With our popularity over the years in particular with defence, we have grown rapidly over the last 5 years. This expansion has cemented our position in the market as we continue being the preferred supplier to defence and being able to service and maintain our generators in the many years to come.



There are many different reasons why customers choose Enquest, these reasons are outlined below:

- We design and manufacture our generators in Australia, none of the generators we sell are imported.
- Our generators are fitted with only the highest quality components, most parts sourced from Australia.
- The engines used are high quality, Japanese Yanmar engines. These are known to be virtually bulletproof, simple, and easy to source service parts for.
- Most of the AC Alternators that we use are a permanent magnet setup, designed here in Australia. These are the most compact, most efficient, and importantly have no electronics to fail- a common issue with standard alternators.
- Our DC alternators are built here at our facility, a compact permanent magnet design, and the only company building these in Australia.
- The controllers used on the generators designed by us, made locally in Brisbane. They are a simple yet effective controller that will withstand the harshest conditions, with some meeting MIL Specs.
- The enclosures and most panels are high grade aluminium meaning they will not rust, especially if they get scratched or hit.
- We make some of the most quiet running generators for thier size thanks to our ability to make custom made mufflers and using premium sound insulation panels.
- Our designs are based on the theory of "keeping it simple" removing the need for complicated electronics that lead to unwanted failures and making a product that lasts.
- A multi-award winning company for design innovation.
- Our generators are proven to be some of the most reliable on the market, a main reason why we supply so many generators for defence.

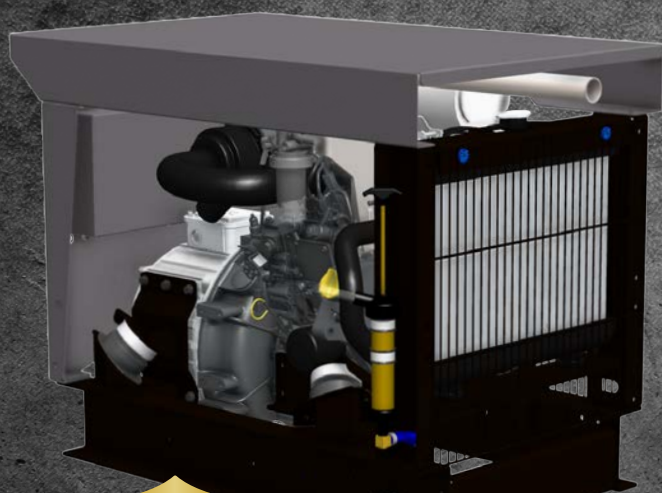


Watch Our Video

ABOUT THE RANGER 4500 SEMI ENCLOSED

The Ranger 4500 semi-enclosed generators were designed as an alternative to our popular Husky generator. It has superior motor starting power thanks to its directly mounted RFL permanent magnet alternator and two cylinder Yanmar motor. Running at 1500 RPM, its also quieter than the Husky. The Ranger 4500 allows for remote start connections and the ability to use the 7-day time clock start stop option- perfect for setting regular times for turning on and off a bore pump etc. automatically. The efficient Yanmar motor running at low speed allows for a phenomenal fuel economy of just 1.3L per hour under full load. Using the RFL alternator allows for some of the best motor starting capacities on the market. No need to oversize the generator just to accommodate starting a pump motor.

These generators are hand built here in Queensland using locally sourced components. With simplicity in mind, the alternator design uses no electronics to regulate voltages which is a common failpoint on most generators. The PM330 controller is designed by us and manufactured in Queensland. This is a simple, reliable and powerful design using solid state relays, LED displays and a conformal coated single circuit board layout. The best part is that it draws absolutely no power when in standby mode including remote start.



3 YEARS / 3000 HOURS

WARRANTY

FEATURES

- Powdercoated zinc-rich primed steel base frame
- High Quality components
- Vibration reduction mounts
- Oversized alternator for motor starting
- Extremely quiet running
- Very compact
- RFL Permanent Magent alternator, pure sine wave, self regulates (No AVR)
- World renowned Yanmar industrial engine
- High-crank sealed AGM battery
- Comprehensive range of options available
- 3 Years, 3,000 hour warranty

APPLICATIONS FOR USE

The Ranger 4500 semi enclosed generators are quite versatile units and can be used for a variety of different industries. Applications include:

- Bore Pumping, Pivot and Irrigation
- General power for agriculture
- Mining
- Commercial
- Household Backup
- Food Trucks and Vans
- Market Stalls
- Site Power

GENERATOR	MOTOR (kW)	MOTOR (HP)
Ranger 4500 (4.5 kVA)	1.4 - 2.3	1.9 - 3.1

OPTIONAL EXTRAS



140L Bunded Tank

The Ranger 4500 semi enclosed models do not have an onboard tank. A 140L underbase tank will keep you running if no external fuel source is available.



7-Day Timer

The 7-Day timer is a perfect option for allowing the user to set the generator to start at any particular time and day, and shut the generator down at any time and day.



24 Hour Countdown Timer

The easy to use digital countdown timer allows the user to set the generator to run for a pre-determined time, then shut the generator down. This replaces the need to run the fuel tank dry which creates a lot of issues.



Pump Pressure Shutdown

Want the generator to shut down when your water pressure reaches a predetermined setting. This uses a mechanical gauge that reads your water pressure and shuts the generator down when pressure is too high or too low.



Three Phase Power

The Ranger series is standard as a single-phase output. For three-phase, we reconfigure the alternator and controller for three phase. This removes both 15A outlets and is replaced with a 20A 5 pin outlet with RCBO protection.



E-Stop

An E-Stop may be required to meet site safety requirements. This E-stop is located in a convenient location on the generator controller.



Battery Isolator

Whilst the controller does not draw power when in standby, a battery isolator is a good addition for when servicing your generator, locking a generator out from being started or placing into long term storage.

And More!

STANDARD SPECIFICATIONS

Model	Single Phase	Three Phase
Continuous Output	4.5 kVA, 3.6 kW	
Output Voltage	230V 50Hz	230/400V 50 Hz
Current @ 0.8pf	18.5A	6.3A/Phase
Power Outlets	2x 15A 3 Pin GPO	1x 20A 5 Pin Outlet
Outlet Protection	RCBO protection, IP66 Covers	
Engine Make	Yanmar	
Engine Model	2TNV70-WLYE	
Engine Displacement	0.570L	
Cylinders	2	
Aspiration	Natural	
Engine RPM	1500	
Fuel Type	Automotive Diesel (Up to 7% Biodiesel Compatible)	
Fuel Consumption (100% Load)	1.3L Per Hour	
Standard Tank Capacity	No Internal Tank, Optional 140L Tank	
Cooling	Water-cooled with on board radiator	
Noise (100% Load)	67 dB(A) at 7 Metres	
Service Intervals	250 Hours	
Phase Alternator Model	RFL RF4-10	
Alternator Type	4 Pole Permanent Magnet Radial Flux	
Voltage Control	Inherent, Non-Electronic (Self Regulating), $\pm 3\%$ Accuracy	
THD %	5.3%	2.1%
Alternator Rating	10kVA	
Alternator Efficiency	86.6%	92.5%
Generator Control	PM330 with 2-Wire remote start	
Engine Protections	Low Oil Pressure, High Temperature, High/Low Voltage Shutdown	
Battery	230cca, 20Ah 12V AGM	
Maximum Operation	30° Angle -10°C to +40°C 3000m Above Sea Level	
Dimensions (LxWxH)	867 x 605 x 726	
Weight	200kg	
Dimensions with Optional 140L Tank	1215 x 605 x 1510	
Weight with Optional 140L Tank	315kg	
Warranty	3 Year, 3000 Hour Warranty	



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