



**POWER TO GO
REMOTE**

SOLAR | FUEL | HYBRID

SALES | SERVICE | CUSTOM



POWERFUL DIESEL DC GENERATORS



POWER YOU CAN TRUST

- Quiet and compact
- Remarkable fuel economy
- Variable engine speed
- Water-cooled low-speed engine
- Direct-drive water-cooled alternator
- Charges any battery type
- Robust design
- Easy maintenance
- 2-year limited warranty
- Ideal for:
 - hybrid power plants
 - solar power backup
 - telecommunications

PowerMaker Ranger DC diesel generators are a range of powerful diesel power units for the big jobs - ideal for hybrid power plants, solar power backup, telecommunications, mine site communications, remote area power, commercial plant, plant battery charging, mobile mining, and LED flood light sets.

PowerMaker Ranger is built tough for any environment or application. It is compact, quiet, and virtually unbreakable.

Using variable speed technology, PowerMaker Ranger has been designed to reduce noise and ensure your generator runs at the most efficient speed, saving fuel and extending your engine's life.

PowerMaker Ranger has remarkable fuel economy. It uses 22% less fuel than any other conventional engine-powered generator to generate electrical energy. It uses 45% less fuel to charge your batteries.

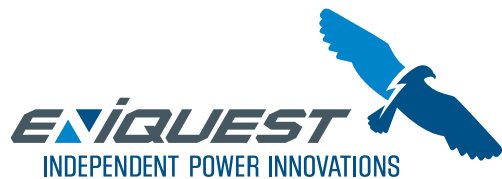
PowerMaker Ranger is designed and built in Australia by Enquest, the leaders in generator technology, using only the highest grade materials. It uses an Australian-wound, totally-enclosed alternator which has virtually no losses. Its highly-regarded water-cooled Yanmar diesel engine has been selected as the best possible fit for a truly superior product.

PowerMaker Ranger has a fully-bundled, powder-coated aluminium acoustic enclosure, with a multi-chamber exhaust silencer to ensure quiet operation. It's also available unenclosed as an open set, for installation in your own space.

Customise your Enquest PowerMaker Ranger to suit your needs. Let Enquest design a product to suit your application.

POWERMAKER Ranger 5.0/6.0 POWERMAKER Ranger 8.0/10.0

	5.0	6.0	8.0	10.0
Portable	Yes	Yes	Yes	Yes
Operation	Automatic	Automatic	Automatic	Automatic
Power	5.0kW @ 29V	6.0kW @ 58V	8.0kW @ 28V	10.0kW @ 56V
Voltage	24 V DC	48V DC	24V DC	48V DC
Fuel	Diesel	Diesel	Diesel	Diesel
Weight	175/205kg	175/205kg	195/235kg	195/235kg



POWER TO GO

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The facts you need to know about Enquest generators

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POWERMAKER Ranger 5.0/6.0

POWERMAKER Ranger 8.0/10.0

POWERMAKER Ranger				
Model	Ranger 5.0	Ranger 6.0	Ranger 8.0	Ranger 10.0
Output power - Continuous*	5.0kW @ 29V DC	6.0kW @ 58.0V DC	8.0kW @ 29.0V DC	10.0kW @ 58.0V DC
Nominal output voltage	24V DC	48V DC	24V DC	48V DC
Maximum battery charging amps*	175A	105A	280A	178A
Bulk charge current (programmable)	Up to 175A	Up to 105A	Up to 280A	Up to 178A
Absorption charge voltage (programmable)	Up to 29V	Up to 58V	Up to 29V	Up to 58V
Battery charging typology	Two stage, constant current, constant voltage			
Engine				
Engine make/model	Yanmar 2TNV70		Yanmar 3TNV70	
Engine type	Diesel, naturally aspirated, indirect injected, industrial			
Engine displacement	570cc		854cc	
Number of cylinders	2		3	
Operating speed (automatic variable)	1900 to 2500 RPM	1900 to 2500 RPM	1900 to 2500 RPM	1900 to 2600 RPM
Cooling method	Water cooled with radiator and belt-driven cooling fan			
Fuel type	Automotive diesel			
Fuel consumption at full load	1.74 litres/hour	2.1 litres/hour	2.8 litres/hour	3.5 litres/hour
Fuel lift pump	Electric		Mechanical	
Maximum fuel suction capability	1.6 metres vertical			
Starting	12V (optional 24V)			
Lube oil type	SAE15W40 in ambients from -15°C to 40°C			
Lube oil capacity	1.8 litres	1.8 litres	2.8 litres	2.8 litres
Crank case oil evacuation	Drain valve (hand pump optional)			
Service intervals	250 hours (500 hours optional)			
Alternator				
Alternator make	Enquest SF5.6		Enquest SF8.0	
Alternator type	Permanent magnet, brushless, with bearingless rotor			
Enclosure	Totally enclosed			
Windings connection	Three phase star	Three phase delta	Three phase star	Three phase delta
Voltage control	Variable engine speed			
Voltage control accuracy	Within +/-1%			
Rectifier type	Full wave dual bridge	Full wave bridge	Full wave dual bridge	Full wave bridge
General				
Enclosure type (enclosed versions only)	Noise reducing, fully enclosed, fully banded, in powder coated aluminium, with integrated multi chamber exhaust silencer			
Noise emission @ full power @ 7 metres	61dBA enclosed; 67dBA open		63dBA enclosed; 67dBA open	
Vibration isolation	High isolation angled at 45° for movement restraint			
Control type	Digital signal processing (DSP) based with engine protection			
Dimensions (open) - L x W x H mm	810 x 570 x 710	810 x 570 x 710	900 x 540 x 700	900 x 540 x 700
Dimensions (enclosed) - L x W x H mm	1130 x 625 x 795	1130 x 625 x 795	1240 x 625 x 795	1240 x 625 x 795
Weight (open/enclosed)	175/205kg	175/205kg	195/235kg	195/235kg
Operating environment				
Normal operating temperature range	-15°C to +54°C			
Minimum operating temperature	- 40°C with optional sequenced temperature starting			
Derating for temperature using current limit	3% for every 10°C above 27 °C			
Normal operating altitude	Sea Level to 3000m			
Maximum operating altitude	5000m with optional forced induction			
Derating for altitude	1.3% for every 100m above sea level			

* @ 27°C, 750mmHg, 60% relative humidity

These specifications are subject to change without notice.

