



Generator Technical Data Sheet

MODEL

CRGD90



*Manufactured in
South Africa*

Technical Data

Standby Power (0.8 pf)	kVA	88
	kW	70.4
	Amps	127
Prime Power (0.8 pf)	kVA	80
	kW	64
	Amps	115
Speed	rpm	1500
Voltage	V	400/230
Frequency	Hz	50

Maximum Operating Conditions w/o Deration

Ambient Temperature	Celsius	25
Relative Humidity	%	25
Altitude	meters	250

Performance Standards

25 degrees Celsius, < 250 meters altitude, relative humidity 25%, atmospheric pressure 100 kPa, balanced load, non-distortional.



Generator Details

Performance Ratings

* Standby Power (ESP)

This rating is applicable for supplying emergency power for the duration of a MAINS utility power interruption. No overload is available for this rating.

* Base Load Power (BLP)

Please contact the manufacturer for ratings applicable to base load applications.

* Prime Power (PRP)

This rating is applicable for continuous operation for an unlimited number of hours in a variable load application. A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation.

Engine

- * Perkins diesel water-cooled
- * Naturally aspirated
- * Reliable 1000 Series engine
- * Direct fuel injection system
- * Mechanical governor



Alternator

- * Mecc Alte
- * Brushless, AVR regulated
- * High reliability
- * Smooth output performance
- * Class H insulation



Base Frame

- * Heavy duty with integrated long range diesel fuel tank
- * With maintenance free battery
- * Heavy duty engine/alternator AV isolator mounts
- * With rigging eyelet points on each corner of base
- * Skid type construction



Technical Data Sheet

CRGD90

Generator Details

Engine Make	Perkins
Country Of Origin	United Kingdom
Engine Model	1104A-44TG2
Standby Power (kWm)	78
Prime Power (kWm)	71
Cylinders	4 in line
Displacement (cc)	4400
Speed (rpm)	1500
Aspiration	Turbo Charged
Cooling	Water-cooled
Oil Capacity (liters)	8
Governor	Mechanical

Standby Power (ESP)		
Voltage (V)	Current (A)	Power (kVA/kW)
380	---	---
400	127	88 / 70
415	---	---
Ratings @ 1500 RPM, 50Hz, 0.8 pf.		

Prime Power (PRP)		
Voltage (V)	Current (A)	Power (kVA/kW)
380	---	---
400	115	80 / 64
415	---	---
Ratings @ 1500 RPM, 50Hz, 0.8 pf.		

Alternator Make	Mecc Alte
Country Of Origin	Italy
Alternator Model	ECP32-4L/4
Alternator Type	Brushless
Phases	3 + N
Voltage (V)	400/230
Voltage Accuracy	< 1%
Frequency (Hz)	50
Speed (rpm)	1500
Protection Class	IP23
Insulation Class	H
Short Circuit Current	> 300% in
AVR Type	Analogic

Fuel System	
Fuel Type	Diesel (50 ppm)
Fuel Tank Capacity (liters)	490
Fuel Consumption (l/hour)	9.7 @ 50% load
Fuel Consumption (l/hour)	18.7 @ 100% load
These are factory tested fuel consumption figures.	

Dimensions & Weight	
Length (open / closed) (cm)	230 / 260
Width (open / closed) (cm)	110 / 110
Height (open / closed) (cm)	180 / 210
Dry Weight (open / closed) (kg)	1570 / 1432
Use dimensions and weights as a guideline only.	

Base Frame Make	Predator
Country Of Origin	South Africa
Composition	Mild steel
Integrated Diesel Fuel Tank	Yes
Battery	1150 Maintenance Free
Battery Rating (Ah)	102
Isolators	Rubber AV mounts



Technical Data Sheet

CRGD90

Optional Control Systems & Canopy



Manual Start Panel

- * Manufactured in South Africa
- * Tecno Elettra TE809G digital control module
- * LCD readout screen for genset performance data
- * Alarm warnings and shutdown protection systems
- * CAN electronic engine communication compatibility
- * Full monitoring of engine, alternator and control panel
- * Emergency stop
- * 3-Pole circuit breaker protection

Automated AMF + ATS Panel

- * Manufactured in South Africa
- * Tecno Elettra TE809A digital control module
- * LCD readout screen for genset performance data
- * Alarm warnings and shutdown protection systems
- * CAN electronic engine communication compatibility
- * Full monitoring of engine, alternator and control panel
- * Emergency stop
- * 4-Pole circuit breaker protection
- * Electrically and mechanically interlocked changeovers



Sound & Weather Canopy

- * Corrosion resistant 3CR12 stainless steel
- * Provides protection against weather elements
- * Provides sound attenuation assistance
- * Modular bolt on design
- * With lockable service access doors
- * Suitable for exterior placement applications

Manufacturers Details



45 Piet Retief Road, Durban, 4093, KZN, South Africa
P.O. Box 28382, Malvern, 4055
Tel: + 27 31 463 1433 / Fax: + 27 31 464 9930
Email: sales@powerproducts.co.za