



Generator Technical Data Sheet

MODEL

CRGD20-1



*Manufactured in
South Africa*

Technical Data

Standby Power (1 pf)	kVA	20.9
	kW	20.9
	Amps	91
Prime Power (1 pf)	kVA	19
	kW	19
	Amps	82
Speed	rpm	1500
Voltage	V	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
- * Natural
- * Reliable 400 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



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Generator Details

Engine Make	Perkins
Country Of Origin	United Kingdom
Engine Model	404D-22G
Standby Power (kW)	20.6
Prime Power (kW)	18.7
Cylinders	4 in line
Displacement (cc)	2216
Speed (rpm)	1500
Bore & Stroke (mm)	84 x 100
Aspiration	Natural
Cooling	Water-cooled
Oil Capacity (liters)	10.6
Governor	Mechanical

Alternator Make	Mecc Alte
Country Of Origin	Italy
Alternator Model	ECP28-VL/4
Alternator Type	Brushless
Phases	1
Voltage (V)	230
Voltage Accuracy	< 1%
Frequency (Hz)	50
Speed (rpm)	1500
Protection Class	IP23
Insulation Class	H
Short Circuit Current	> 300% in
AVR Type	Analogic

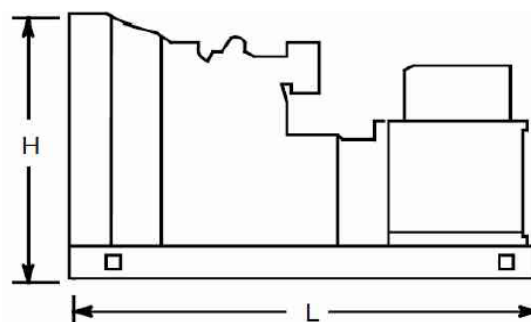
Base Frame Make	Predator
Country Of Origin	South Africa
Composition	Mild steel
Integrated Diesel Fuel Tank	Yes
Battery	NS70 Maintenance Free
Battery Rating (Ah)	65
Isolators	Rubber AV mounts

Standby Power (ESP)		
Voltage (V)	Current (A)	Power (kVA/kW)
240	---	---
230	95	22 / 20
220	---	---
Ratings @ 1500 RPM, 50Hz, 1 pf.		

Prime Power (PRP)		
Voltage (V)	Current (A)	Power (kVA/kW)
240	---	---
230	86	20 / 20
220	---	---
Ratings @ 1500 RPM, 50Hz, 1 pf.		

Fuel System	
Fuel Type	Diesel (50 ppm)
Fuel Tank Capacity (liters)	400
Fuel Consumption (l/hour)	2.9 @ 50% load
Fuel Consumption (l/hour)	5.3 @ 100% load
These are factory tested fuel consumption figures.	

Dimensions & Weight		
Length (open / closed)	(cm)	180 / 210
Width (open / closed)	(cm)	90 / 90
Height (open / closed)	(cm)	150 / 190
Dry Weight (open / closed)	(kg)	654 / 805
Use dimensions and weights as a guideline only.		



Optional Control Systems & Canopy



Key Start Control Panel

- * Manufactured in South Africa
- * Key Start
- * Alarm warnings lights
- * Load Contactor
- * Emergency stop
- * 2-Pole circuit breaker protection

Automated AT3809A-1-ZA Control Panel

- * Manufactured in Italy
- * Tecno Elettra TE809A digital control module (Italy)
- * LCD readout screen for genset performance data
- * Alarm warnings and shutdown protection systems
- * Full monitoring of engine, alternator and control panel
- * Emergency stop
- * 2-Pole Mains Isolator
- * 2-Pole Generator Isolator
- * Electrically and mechanically interlocked changeovers

AT3809



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



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