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D.E.S.S. POWER
Diesel Engine Services & Spares
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DPA200C Diesel Genset

General Technical Data

Model	DPA200C
Standby rating kVA	200
Standby rating kW	160
Prime Rating kVA	180
Prime Rating kW	144
Engine Make	Cummins
Engine Model	6CTA8.3G2
Frequency	50Hz
Cylinders	6
Aspiration	Turbocharged
Governor	Electronic

General Features

- Industry leading Cummins diesel engine and Stamford alternator
- Sound attenuating / weatherproof canopy
- Forklift slots for easy transportation
- Deep Sea Electronics control panel
- 50ºC radiator as standard

- Direct injection fuel system
- Emergency stop push button installed outside of the canopy
- Skid-mount base with anti-vibration pads
- ISO 9001:2000 certified
- Painted by electrostatic polyester powder paint

Standby Rating: Standby duty, operation under variable load without overload. **Prime Rating:** Continuous duty, operation under variable load 24/24 hours, with 10% overload permissible for 1/12 hours.

Dimensions and Weights

Sound Attenuated Type

Overall size L x W x H, mm	3269 x 1168 x 1900
Dry Weight, net, kg	2,280kg

Diesel Engine Specifications

CUMMINS is a world leader in the manufacture of high quality, high reliability diesel engines.

- Four stroke, water-cooled, turbocharged
- 50^{o}C radiator as standard
- Direct fuel injection system

Technical Data

Engine Model	6CTA8.3G2
Engine Manufacturer /Brand	Cummins
Type and Cylinder	6 - inline
Induction System	Turbocharged
Bore x Stroke mm	114 x 135
Compression Ratio	17:1
Displacement L	8.3
Engine Speed rpm	1500
Engine power output at rated rpm	241 hp
Oil Capacity L	23.8
Coolant Capacity L	41.3
Fuel Tank Capacity L	350
Fuel consumption at full load	40 L/hr
Governing Type	Electronic

AC Alternator Specifications

STAMFORD ALTERNATOR STAMFORD has a long history of producing high quality and reliable generator alternators for the global market. Their portfolio of high quality alternators is recognised internationally as an industry standard.

- Brushless, self exciting
- Self regulating
- Class 'H' insulation
- Standard degree of protection is IP21 (IP22/IP23 is available)
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics

Technical Data

Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125-163^{o}C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load <5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

Control System

The Control system is a Deep Sea Electronics DSE6020

Auto Mains Failure Control Panel
Panel equipment:

- Control with AMF module
- Static battery charger
- Emergency stop push button

Generating set control module DSE 6020 features:

- The module is used to monitor main supply and starts and stops of a standby generating set
- Micro-processor based design
- Monitors engine performance and AC power output LED alarm indication
- Automatic control of main and generator contactors
- Front panel configuration of timers and alarm trip points
- CAN and magnetic pick-up versions(specify on ordering)
- 4 digital inputs/3 analogue inputs
- 6 outputs(4 configurable on Magnetic Pick-up, 6 configurable on CANbus version)
- Easy push button control

Alarms:

- Over and Under Speed
- Low and High Battery Volt.
- Start and Stop Failure
- Charge fail
- Over Current
- Under / Over Generator Voltage
- Low Oil Pressure
- Emergency stop
- High engine temperature

LED Indications:

- Mains on load
- Generator on load
- Mains available
- Generator available

Metering via LED display:

- Generator Volts (L-L / L-N)
  Generator kVA
- Engine oil pressure (PSI-Bar)
  Generator kW
- Generator Ampere (L1,L2,L3)
  Generator Cos (σ)
- Engine temperature (° C &° F)
- Generator Frequency (Hz)
- Plant battery volts
- Engine hours run
- Mains Volts (Ph-Ph/Ph-N)