

# D.E.S.S. POWER

**Diesel Engine Services & Spares** 

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# **DPA66CR** Diesel Genset

## **General Technical Data**

Model	DF
Standby rating kVA	66
Standby rating kW	52
Prime Rating kVA	60
Prime Rating kW	48
Engine Make	Сυ
Engine Model	4B
Frequency	50
Cylinders	6
Aspiration	Tu
	aft

PA66CR .8 ummins 3TA3.9G2 )Hz urbocharged & aftercooled Electronic



### Governor

### **General Features**

- Industry leading Cummins diesel engine and Stamford alternator •
- Sound attenuating / weatherproof canopy •
- Forklift slots for easy transportation •
- Central lift point for crane mobility •
- Deep Sea Electronics control panel •
- 50°C radiator as standard •
- 24 hour bunded fuel tank (330 litres) •
- Direct injection fuel system •
- 70dBA @ 7m •
- 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 with a maximum mean load factor of 70% of rated prime power over 24hrs of operation, with 1/12 hours accumulated peak overload to 110%

### **Dimensions and Weights**

Sound Attenuated Type

Overall size L x W x H, mm 2882 x 1063 x 1835 Dry Weight, net, kg 1,745kg

# **Diesel Engine Specifications**

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

- Four stroke, water-cooled, turbocharged
- Direct fuel injection system

#### **Technical Data**

Engine Model	4BTA3.9G2
Engine Manufacturer /Brand	Cummins
Type and Cylinder	4 - inline
Induction System	Turbocharged & aftercooled
Bore x Stroke mm	102 x 120
Compression Ratio	16.5:1
Displacement L	3.9
Engine Speed rpm	1500
Engine power output at rated rpm	74 hp
Oil Capacity L	10.9
Coolant Capacity L	19.9
Fuel Tank Capacity	330
Fuel consumption at full load	12.9 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°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)

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