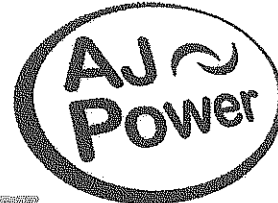


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Quote Ref: Q6995

ADDITIONAL



Further to your recent enquiry, we are pleased to offer the following:

Item 1) 1600kVA / 1280kW Prime – 3 Phase, 400/230kVA, 50Hz, 1500rpm, 0.8 pf

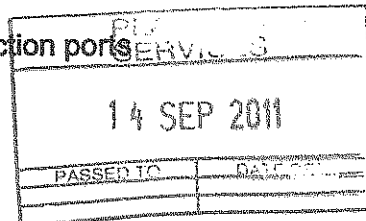
To supply 2 (Two) Nos. brand new and complete AJ Power model AJ1760S (DC3-AJ1760S-5P1) containerised digital diesel generating set, rated at 1600kVA Standby power, 400/230V, 3 phase, 0.8 power factor, 50Hz, 1500rpm powered by MTU engine 12V 4000 G23

Engine Specification

12V 4000 G23 Liquid-cooled, four-stroke diesel engine, with direct fuel injection, exhaust gas turbo-charging, charge air cooling and the following basic equipment:

Basic engine

- Grey cast-iron crankcase with inspection ports
- Flywheel housing SAE 00
- Flywheel 21 "
- Oil pan
- Forged crankshaft
- Forged connecting rods
- Four-valve, individual cylinder heads with exhaust valve rotators "Rotocap"
- Aluminium solid-skirt pistons
- Piston cooling via oil spray nozzle
- Gear train for accessory drives
- Dry exhaust manifolds
- Vibration damper
- All necessary on-engine air, exhaust, coolant, fuel and oil pipework



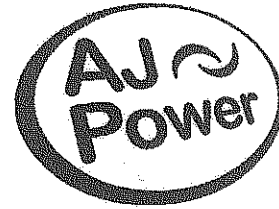
Starting system

- 2 electric starters (24 VDC / 2-pole)
- Battery charging alternator, 28 VDC / 100 A

Fuel system

- "Common-Rail" fuel injection system, with low and high pressure fuel pumps, fuel pressure accumulator, high pressure fuel lines and electronically controlled injection
- Fuel main filter (duplex filter)
- Fuel priming pump for initial system filling and venting (low-pressure system)

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Engine standard version for fuel consumption-optimized operation

Lube oil system

- Forced-feed lubrication system with piston cooling
- Lube oil circulation pump with safety valve
- Lube oil multi-stage filter
- Lube oil heat exchanger
- Oil filler neck and oil dipstick for measurement on non-running engine
- Closed crankcase venting system

Combustion air system

- Exhaust turbochargers
- Intercooler
- Set of dry-type air filters with contamination indicator

Exhaust system

- 2 exhaust bellows 90°, 2 axial compensators with gaskets and companion flanges

Cooling system

- Coolant circulation pump and coolant thermostat for jacket water cooling circuit
- Coolant circulation pump and coolant thermostat for charge air cooling circuit
- Coolant Heater

Engine mounting

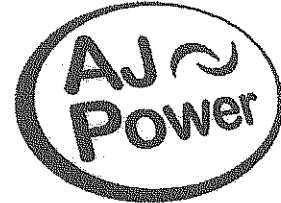
- Set of engine mounting brackets at engine free end for resilient mounting with flange-mounted alternator
- Set of engine mounting brackets at engine driving end for resilient mounting with flange-mounted alternator

Engine management system

- Integrated electronic engine control and monitoring system ADEC for
 - Engine speed control
 - Engine monitoring and display of engine operating parameters and alarms
 - Engine protection against exceeding critical operating parameters
 - Automatic start sequence control
 - Acquisition and display of plant-related measured data
 - Communication with an external system

Paintwork

Quote Ref: Q6995



Standard paintwork, single-coat, water-based paint, brilliant blue, RAL 5007

Alternator (4 Pole)

Newage Stamford, brushless self exciting, self regulating screen protection and drip proof

- Class H insulation with severe environmental protection
- 2/3 pitch winding
- IP 23 enclosure protection
- Tropical protected with impregnated windings
- Single bearing and close coupled
- Permanent Magnet Generator (PMG) & 2 Phase Sensing
- Automatic voltage regulator incorporating voltage adjustment potentiometer

Newage Stamford alternator meet the requirements of BS EN 60034, and the relevant section of other international standards, BS 5000, VDE 0530, NEMA MG1-32, IEC 34, CSA C22.2.100, AS 1359.

Baseframe

Heavy-duty steel baseframe with constricted anti-vibration mounts supplied between baseframe and container floor. 4 lifting eyes are fitted to the base frame.

Radiator

Tropicalized air blast radiator manufactured by Bearward.

Sound Attenuated Container – 85dBA @ 1m

Container, having 8 single leaf doors with restraining straps. Lockable slam fasteners complete with internal panic release push buttons.

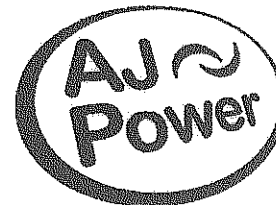
Generators positioned back to back

Dimensions: 14,200mm long x 2600mm wide x 3100mm high

Common air inlet attenuator: 4900mmL x 2600mmW x 2100mmH

Air outlet attenuators (2 off): 1500mmL x 2100mmW x 2550mmH

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External Bulk fuel tank – 17,000 litres - optional

17,000 litre capacity rectangular mild steel environmental oil storage tank measuring 1920mm wide x 1990mm high x 4500mm long and manufactured from 6mm m.s. plate and complete with a fully enclosed bund measuring 2000mm wide x 2000mm high x 5100mm long, made from 3mm m.s. plate and having a common roof with the tank.

The bund is designed to hold 110% of the calculated capacity in case of a leak. Tank and bund pressure tested separately during construction.

The tank is stayed in accordance with BS799.

The tank would be shotblasted and painted B&T standard epoxy finished (120 micron dft) and is complete with 4" x 2" channel supports.

The following fittings are included:

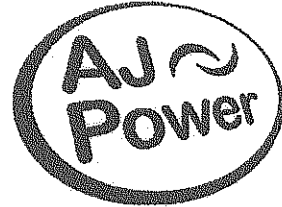
- Raised neck manhole to tank
- Inspection hatch to bund area
- 2" fill pipe with valve, cap and chain and 2 no. 2" bosses from fillpoint cabinet to tank
- Vent and overflow will be piped (3" dia) from tank to bund
- 2" vent from bund to atmosphere
- 1 ½" supply pipe complete with valve
- 1 ½" boss contents gauge
- ½" boss for contents gauge cable 2 no.
- ¾" boss for sump drain fill point cabinet
- 1" boss for sludge drain
- 1 ½" boss for spill alarm
- 2" boss dip
- Internal ladder in bund area
- 2" spare
- C-series normond contents gauge
- 3" overfill prevention valve
- Mains operated bund alarm
- Brass calibrated dipstick

Control Panel

Comap intelisys automatic synchronising panel.

Wiring

Quote Ref: Q6995



DC wiring looms utilising multi-pin connectors, thus permitting fast fault finding diagnosis.

Circuit Breaker

2500 Amp 3 pole motorised circuit breaker mounted in a sheet steel box with adequate access for outgoing cables.

Manuals

One complete set of operation manuals (English)

Testing

Each set is individually load tested, and all protection device and control functions are simulated and checked prior to despatch.

Applicable standards

BS 4999, BS 5000, IEC 34, VDE 0530, NEMA MG 1-22, ISO 3046, BS 5514. CE Certification provided.

Rating Definitions;

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in any 12 hour period

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

Reference Conditions

40 degC Air inlet temperature, 400 metres ASL and a relative humidity of 60%

Warranty

All equipment is guaranteed for a period of 12 months from the date of commissioning or 18 months from shipment whichever occurs first.

