



Diesel Powered Generating Sets Power By China SDEC Engine

MTP-SC205S 150KW

1500 RPM 400V 3P 4W/50Hz/0.8F



Single Source Responsibility

Design, manufacture and testing of engine, alternator, control system and complete generating set are all produced by our company

Single bearing alternator, class H/H
Standard voltage 400v volts 50 Hz
Exciter/Voltage reg - Torque Match as standard
Standard Deepsea DSE6120 Auto start whith AMF
Steel base frame with A/V mounting,
Engine, Alternator, Chassis & Control Box
3 pole or 4 pole Delixi Circuit Breaker
40° C Degree Radiator
Packing under shrunk plastic film
Operation & Maintenance manual
Standard set of labels
Battery Charger 24V, 5A or 10A
Floating Battery Charger 24V, 5A or 10A
Seaworthy Plastic film packaging
Maintenance-free battery

Generator Performance

Voltage Regulation

Maintains voltage output to within $\pm 1.0\%$. At any power factor between 0.8 and 1.0 At any variations from No load to Full load. At any variations from Cold to Hot. At speed droop variations up to 4.5%.

Frequency Regulation

Isochronous under varying loads from no load to 100% full load when electronic governor is fitted

Random Frequency Variation

Will not exceed $\pm 0.25\%$ of its mean value for constant loads - no load to full load.

Waveform

Total harmonic distortion open circuit voltage waveform in the order of 1.8%. Three-phase balanced load in the order of 5.0%.

Telephone Influence Factor (TIF)

TIF better than 50.

THF to BS 4999 Part 40 better than 2%.

Alternator Temperature Rise

Class H insulation.

Radio Interference

In compliance with BS 800 and VDE levels ${\bf G}$ and ${\bf N}.$

Generator Set Options

FR

Fuel options

Fuel Tank / 10hr operation

Exhaust Options

 ${\bf Exhaust\ Silencer\ -\ Industrial\ In-Line}$

Exhaust Bellows

Exhaust Silencer - Residential , In-Line Installation Kit - Industrial Silencer Installation Kit - Residential Silencer

Voltage Connections

208/120V 220/127V 240/138V 380/220V 440/254V 480/277V

Miscellaneous Options

3 pole or 4 pole Circuit Breaker Optional Set mounted starting batteries Coolant water Heater 24V Battery Charger 24V, 5A or 10A Automatic Transfer Switches Packing - Export Box

Engine Specification

Туре

SDEC water cooled Diesel engine, four cycle, turbocharged and low temperature aftercooled

Construction

Two valves per cylinder, forged steel crankshaft and connecting rods, cast iron

Starting

12/24 volt negative earth. Battery charging alternator 35 amp on engine. Cranking current 1800 amps at 0° C.

Fuel System

12/24 volt fail safe actuator. Spin-on paper element fuel filters with fuel pump injection system with integral electronic governor. Dual flexible fuel lines and connectors. Standard fuel water separator.

Filters

Air cleaner with dry element. Spin-on full flow lube oil filter.

Cooling

 40° C ambient temperature standard Stone guard. Drain Tap

Alternator Specification

Туре

Brushless single bearing, revolving field, pole, drip proof, screen protected.
Class H Insulation, IP23 Protection
Fully interconnected damper winding.
AC exciter and rotating rectifier unit.
Epoxy coated stator winding.
Rotor and exciter impregnated with tropical grade insulating oil and acid resisting polyester resin. Dynamically balanced rotor BS 5625 grade 2.5.
Sealed for life bearings.
Layer wound mechanically wedged rotor.

Excite

Triple dipped in moisture, oil and acid resisting polyester varnish and coated with anti-tracking varnish.

Output windings with 2/3 pitch for improved harmonics and paralleling ability. Close coupled engine/alternator for perfect alignment.

Quality Standards

To BS4999/5000 pt 99, VDE 0530, UTE5100, NEMA MG1-22, CEMA, IEC 34, CSA A22.2, AS1359, BS 5514, ISO 3046 and ISO 8528 ISO9001:2000, ISO14000, CE Compliance





Engine Performance Date@1500RPM								
Output Power	Fuel Consumption							
%	L/h							
Standby Power								
110	43, 7							
Prime Power								
100	39, 3							
75	29, 1							
50	19, 4							
25	10, 3							

Specifications may change without notice

Specification

Mode I	MTP-SC205S	Alternator Manufacture	Mecc Alte
Standby Power	205kVA/164kW	Alternator Model	EC038 2S4C
Prime Power	187. 5kVA/150kW	Standby Power	205kVA/164kW
Engine Manufacture	SDEC	Prime Power	187. 5kVA/150kW
Engine Model	SC7H250D2	Windings	100% copper
Number of Cylinders	6	Regulator type	DSR
Air intake way	Turbo charged air-to-air intercooled	Number of wires	12
Bore × stroke	105mm X 124mm	Alternator Insulation	Н
Compression Ratio	16:1	Protection Class	IP23
Displacement	6. 44L	Winding pitch	'2/3
Engine Standby Output	178KW (50Hz)	Maximum Overspeed	2250
Engine Prime Output	161KW	Altitude	0-1000
Speed	1500 rpm	Code voltage reference	T0405S3
Lubrication Capacity	17.5 liter	Execution	Brushless

In accordance with ISO 8528, 3046, BS5514

PRIME POWER

Prime Power is available continuously during the period of power outage in a variable load application. Variable load should not exceed a 70% average of the prime nower rating during any 24 hour period.

A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation.

STANDBY POWER

The Standby Power is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is

available at this rating.

Canopy diagram

Dimension: 3300*1130*1780mm



Robust Corrosion Resistant Construction

 Δ Black finish stainless stell lock and hinges Δ body made from steel components treated with polyester powder coating

Excellent Access for Maintenance

- Δ radiator fill access plate
- Δ lube oil and cooling water drains pipes to

Security and Safety

- Δ control panel viewing window in a lockable access door
- Δ emergency stop push buttom (red)mounted
- on enclosure interior
- Δ cooling fan and battery charging alternator $\mbox{fully guarded}$
- $\boldsymbol{\Delta}$ exhaust silencing system totally enclosed for

exterior of the enclosure Δ adding cooling water from top of canopy Δ LED light will be lighting automaticlly when open the door

operator safely Δ Control panel and cable design in different directions, all the connection wiring in control panel are more neater and firmer.

Note:

Rating Definitions (Operation at Altitude ≤1000m, Ambient temperature ≤ 40°C)Continuous Power. These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power.

Control Panel - UK DEEPSEA6120

Control Panel -UK DEEPSEA6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

- a) Instruments: V, A (3 phase), Hz, kW, kVAr, kWh.
- b) Controls: Push buttons and LEDs for simple control.
- c) Control module: Standard collocation is DSE6120 Auto start with AMF.

KEY FEATURES:

- Δ Back-lit text LCD display
- △ Front panel editing
- Δ LED and LCD alarm indication
- A Power Save mode
- Δ CAN and Magnetic Pick-up/Alt.versions available (specify on ordering)
- Δ PC and front panel configuration
- Δ 6 Digital inputs, 3 Analogue inputs
- Δ 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Δ Configurable timers and alarms
- Λ Alternative configuration
- Δ Event Log (10)
- △ Remote Start input
- Δ 3 Phase generator monitoring
- Δ Current Monitoring and protection
- Δ 3 Phase Mains (Utility) monitoring (DSE6120
- Δ Test button (DSE6120 only)
- ∆ Battery voltage monitoring
- Δ Engine pre-heat, Hours counter
- Δ Comprehensive shutdown or warning on fault

KEY BENEFITS:

 Δ Automatically transfers between and generato

power (DSE6120 only)

Δ Hours counter provides accurate

information for monitoring and

maintenance periods

- User-friendly set-up and button layout
- Δ Multiple engine parameters are

monitored simultaneously

- Δ Module can be configured to suit individual applications
- Δ Compatible with a wide range of CAN engines
- Δ Tier 4 engine support
- Δ IP65 rating (with optional gasket) offers increased

resistance to water ingress

Δ Licence-free PC software







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See your distributor for more information.

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