

Industrial Range Model SS66 Generator set





General Performance Data

Prime Power	60KVA/48KW	Engine	Brand	SDEC
Stand by Power	66KVA/52KW		Model	4ZTAA4.1-G21
Frequency/Speed	50Hz/1500rpm	Control module	Deepsea 4520	
Rated Power Factor(cos ϕ)	0.8	Rated Current	86A	
Standard Voltage	230V/400V	Capacity of Breaker	100A	
Phases	3	Starting Voltage	DC12V	

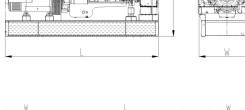
Fuel consumption

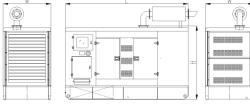
Rated output	Fuel consumption rate		
100%Standby	/	13.66 L/h	
100%Prime	/	12.77 L/h	
75%Prime	/	9.76L/h	
50%Prime	/	6.67L/h	
25%Prime	/	4.07L/h	

Standards followed		
ISO9001	ISO14001	
ISO8528	ISO12100	
ISO13849	EN12601	
GB12786	GB/T2820	
IEC60034	IEC60204	
CE	RETIE	

Dimensions and Weights

Туре	Open	Silent
Length(mm)	2070	2420
Width(mm)	800	1050
Height(mm)	1450	1430
Weight(kg)	1150	1500
Base fuel tank volume (L)	100	100







Engine specification

ManufacturerSDEC PowerHeat rejection to intercooler21.4kcal/secModel4ZTAA4.1-G21Heat rejection to coolant31kcal/secNo. of cylinder4Air flow6.7m3/minTypeIn-line,4 strokes, water-cooledExhaust gas flow13.6m3/minPrime Power64kw550 °C550 °CStandby Power70kwIntake system3kPa initial/4 kPa finInduction system, Turbo chargedExhaust system10 kPa max.
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Prime Power 64kw Standby Power 70kw Induction system , Turbo charged Exhaust system 10 kPa max.
Standby Power 70kw Induction system , Turbo charged Exhaust system 10 kPa max.
Induction system , Turbo charged Exhaust system 10 kPa max.
Exhaust system 10 kPa max.
Governor Electronic speed
Bore x Stroke105 × 118mmCooling system
Displacement4.1LCooling methodFresh water forced circulation
Compression ratio18:1Water capacity (engine only)4.1 liters
Firing order1-3-4-2Pressure system70kPa
Injection timing4ZTAA4.1-G21Water pumpCentrifugal type
Fuel System driven by belt Water pump Capacity original
Type Injection system 4ZTAA4.1-G21
Feed nump Mechanical type
Cooling fan Blower type, plastic
Lubrication The maximum temp. of coolant in prime/ Standby power 104/100°C
system Electric system
Lub. Method Fully forced pressure feed type Charging generator 12V×70A
Oil pump Gear type driven by crankshaft Built-in type IC
Oil filter Full flow, cartridge type Voltage regulator Duit-in type regulator
Oil pan capacity High level 10 liters Starting motor 12V×3.8kW
Low level 8 liters Battery Voltage
Lub. Oil Refer to Operation Manual 12V Battery Capacity 110-120 AH

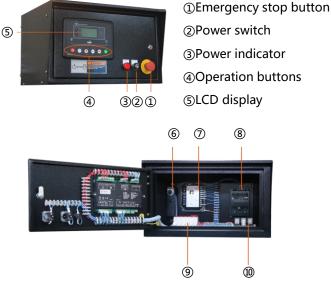
Alternator specification			
Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	Н
Power factor(cosφ)	0.8	Protection	IP23
Winding connection	Star	Excitation system	Self-excited
Winding pitch	2/3	Bearing	Single Bearing
Voltage regulator type	AVR	Coupling	Flexible disc



Control system Introduction

DSE 4510/20 MKII Auto start & auto mains failure control panel

Deepsea 4520 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



⑥Voltage and frequency trimmer	MCB
⑦Governor	①Relay
⑧Charger	

Main features:

KEY FEATURES

Auto Start and AMF mode in one module (DSE4520 MKII only)

- J1939-75 support and CAN alarm ignore functon
- Alternator frequency & CAN speed sensing in one variant
- Largest back-lit icon display in its class
- Heated display option
- · Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- · Extremely efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE4520 MKII only)
- Compatible with 600 V ph to ph nominal systems

Key Features:

- · Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAr h)
- Generator overload protection (kW)
- · Generator/load current monitoring and protection
- Fuel and start outputs (configurable when using CAN)
- 4 configurable DC outputs
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- Configurable staged loading outputs
- 3 engine maintainance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Tier 4 engine instrumentation screens
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown
- protection upon fault condition • LCD alarm indication
- Event log (50)
- Fuel solenoid pulling circuit
- On-screen line diagram on/off functionality
- Configurable CAN instrumentation (10)
- Water in fuel digital input
- Tank bund alarm digital input
- Generator at rest output
- ECU periodic wake-up for information retrieval
- Back-light power-save mode
- · Adjustable delay crank timer
- Pre/post heat functionality
- Overload protection
- Mains/generator A/C system selection
- Output timer for external audible alarm

DSE4520 MKII





Soundproof Canopy Introduction:

Standard Type:

- The arc angle structure makes the appearance beautiful and not easy to bump
- High quality coating powder, chemical surface treatment & 100-120um coating thickness greatly improving the anticorrosion and anti rust level
- Stainless steel hinge & door lock are beautiful and anti-rust
- 2.0mm cold rolled plate used makes the body more solid
- The bottom forklift and loading port design enables easy loading and unloading
- The drainage outlets are all connected to the outside for easy operation
 - Imitated container type:
- The shell is made of 3.0mm hot rolled steel plate so as to withstand the lifting capacity of 15-ton without deformation
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The shell looks similar to standard container, and can be loaded into 40HQ container for transportation, which is convenient for shipping
- The lifting eye holes are designed on the top same as the standard container for easy handling
- High density foam used inside effectively reduces noise
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Double emergency stop button set on different surfaces enables quick response to operation requirements

- The sufficient air in & out design ensure long-term and stable operation of the unit
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- High density foam used inside effectively reduces noise
- Ceiling Lighting is equipped for easy operation
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Models above medium power range are designed with top hoisting mechanism to facilitate transportation of the unit.
- The shell base is independent from the unit with 3mm thick checkered steel plate floor, which is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- The door handle, lock and hinge are all made of stainless steel to avoid rusting
- The air out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation

Classics Economic series:

- •Right angle around the canopy
- Carbon spray hinges and lock with rust proof
- •The drainage & lubricating oil outlets are all connected to the outside for easy to maintain
- •The air inlet and outlet are designed with grid structure of to prevent big objects from entering the canopy
- •The lifting lug on the top for medium range genset makes easily and convenient transportation

- •High-quality powder coated, chemical surface treatment & 80-120um coating thickness is highly endurable against erosion and scratch
- •The bottom forklift is built-in base frame for small range genset, with over stow capacity
- The fuel inlet on the canopy is for easy to fuel filling
- High-density sponge to effectively reduce noise

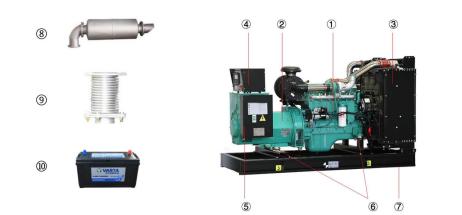




Classics Economic Canopy Sample Picture



Standard supply scope:



- ① Engine
- ② AC Alternator
- ③ Cooling Radiator
- ④ Auto Start Control Panel
- (5) Main Ciruit Breaker
- 6 Built in Shock Pad
- ⑦ High Strength Frame
- (8) Exhaust silencer
- 9 Bellow
- ① Starting battery

Optional supply scope:

Genset	Engine	Alternator	Control system
 Tool box Base fuel tank External daily fuel tank Trailer 	 Fuel heater Fuel and water separator 	 Temp. detector for winding and bearing PMG Antirust, mildew and salt fog treatment Anti condensation heater 	 ATS Synchronization System Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
• ABB • Schneider	 Low fuel level alarm Auto Fuel Pump T Vlave 	Lub oil heaterTempsensorOil drain Pump	• Elec.coolant Heater





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