



# Industrial Range Model SS33 Generator set



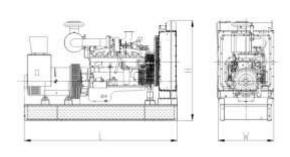


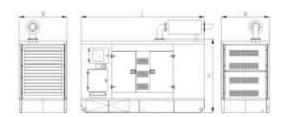
General Performance Data		
Prime Power	30KVA/24KW	
Stand by Power	33KVA/27KW	
Frequency/Speed	50Hz/1500rpm	
Rated Power Factor(cosφ)	0.8	
Standard Voltage	240V/415V	
Phases	3	

Engine	Brand	New Power Automotive
	Model	4Z3.2-G21
Control module	Deepsea 4520	
Rated Current	41A	
Capacity of Breaker	63A	
Starting Voltage	DC12V	

Fuel consumption		
Rated output	Fuel consumption rate	
100%Standby	7.6 <b>L/h</b>	
100%Prime	7.11 <b>L/h</b>	
75%Prime	5.14 <b>L/h</b>	
50%Prime	3.65 <b>L/h</b>	
25%Prime	2.2 <b>L/h</b>	

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





Dimensions and Weights		
Туре	Open	Silent
Length(mm)		2020
Width(mm)		960
Height(mm)		1220
Weight(kg)		/
Base fuel tank volume (L)		57

# **Engine specification**

Voltage regulator type

Basic parameter		Air induction system	
Manufacturer	New Power Automotive Technology	Maximum allowable intake air restriction	
Model	4Z3.2-G21	with clean filter element	3kPa
No. of cylinder	4	with dirty filter element	4kPa
	In-line	Exhaust gas temp.	550 °C
Туре		MECHANISM	
Prime Power	32 kW	Number of valve	Intake 1, exhaust
Standby Power	35 kW	Webseleshes at sold	1 per cylinder
Induction system	Water-cooled	Valve lashes at cold	Intake 0.40mm
Governor	Mechanical type		Exhaust 0.65mm
Bore x Stroke	98x105mm	Cooling system	
Displacement	3.2L	Coolant capacity	
Compression ratio	18:1	Water capacity(engine only)	3.2 L
Oil Capacity(Total)	10L	Lid Min. pressure	70kPa
Coolant Capacity(Engin	e only) 3.2L	Water pump	Centrifugal type driven by belt
Cranking Motor Voltage	e DC12V	Cooling fan	Blower type, plastic
Fuel System		Thermostat:Opening/Full open temp	72/82 ℃
Injection pump	KangDa	The maximum temp. of coolant in prime/ Standby power	104/100℃
Minimum allowable fue fuel pump	el flow of 7.6 L/h		
Lubrication system		Electric system	
Lub. Method	Fully forced pressure feed type	14V×35A	
Oil pump	Gear type driven by camshaft	Voltage regulator	Built-in type IC regulator
Oil filter	Full flow, cartridge type	Starting motor	12V×3.8kW
Lub. Oil	Refer to Operation Manual	Battery Voltage	12V
Oil pan capacity	High level 10 L	Battery Capacity	110~120 AH
	Low level 8 L		
Alternator spe	cification		
Phases	3	Coating Vacuum	n impregnation
Poles	4	Insulation class	Н
Power factor(cosφ)	0.8	Protection	IP23
Winding connection	Star	Excitation system Se	f-excited
Winding pitch	2/3	Bearing Sing	le Bearing

Coupling

AVR



Flexible disc

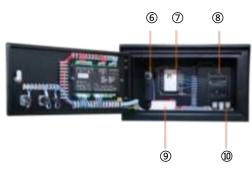
### **Control system Introduction**

# 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



- ①Emergency stop button
- ②Power switch
- ③Power indicator
- Operation buttons
- **⑤LCD** display



- **<b>6** Voltage and frequency trimmer

(7)Governor

®Charger

## 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

- 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.

#### **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 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











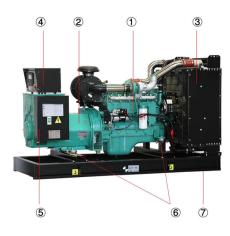


# **Classics Economic Canopy Sample Picture**



# **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
- High Strength Frame
- Exhaust silencer
- Bellow
- Starting battery

# **Optional supply scope:**

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



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