

DNG-SC SERIES

DIESEL GENERATOR SET

50HZ/1500 rpm/400/230V, 380/220V

DNG1375

POWER RATING (0.8P.F.) STANDBY OUTPUT: 1375KVA/1100KW RATED OUTPUT: 1250KVA/1000KW

CONDITIONS & DEFINITIONS

Stand-by:Code: S

Applicable for supplying emergency power at varying load in the event of normal utility power interruption. Fuel stop power in accordance with ISO15550, ISO3046/1, JISB8002, DIN6271 and BS5514.

Prime:Code:CP

Applicable for supplying power with varying load instead of the utility for an unlimited time. Prime powe in accordance with ISO 8528.

Conditions:

Engine rating are based on SAE J1349 standard conditions are also apply at ISO3046/1, DIN6271 & BS5514 Standard conditions.

Fuel rates:Base on ASTM D975, BS2869 and on fuel oil of 35°API (16° C or 60° F) gravity having a LHV of 42,780 Kj/Kg (18,390 Btu/lb.) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001lbs./U.S. gal.).

DIMENSIONS					
Standard Generator Set				Open Type	Soundproof type
	L:	Length	mm	4500	6058
Overall dimensions	W:	Width	mm	2200	2438
	H:	Height	mm	2450	2896
Total Weight (Dry)		-	kg	8000	15000
Total Weight (Wet)			kg		/

Gen Set standard collection

- 1.Brand SDEC 6WTAA35-G311 1500rpm diesel engine.
- 2.Brand new DNG POWER 634G
- 3.Standard model with 8hours under frame fuel tank.
- 4.Standard voltage: 50Hz 400/230V, 380/220V
- 5. The syncronized cabinet with controller panel DeepSea DSE8610
- 6.24V DC 2X120AH battery charger.
- 7.DELIXI circuit breaker.
- 8.Battery, battery tray and cable.
- 9.50℃ ambient radiator
- 10. Rubber absorber for engine, radiator, alternator and control panel.
- 11.Fan protection wire basket will be larger, thick and strong.
- 12. Lubricating oil will be filled in the gensets before delivery.
- 13. English operation/maintenance manuals.



DIESEL ENGINE: SDEC 6WTAA35-G31 1500RPM

In-line,4strokes,,water-cooled, Turbo charged with aftercooler,Direct injection

ENGINE SPECIFICATIONS & TECHNICAL DATA

Max.Power (Standby)	kw	882/970	
Bore	mm	186	
Stroke	mm	215	
Displacement	L	35.1	
Compression ratio		15:01	
Lubricating oil capacity	<u>L</u>	75-100	
Coolant Capacity	<u>L</u>	78	
Aspiration Type		Air-Air Intercooler	
Combustion		Direct injection	
Speed Governor		Electrical	

FUEL CONSUMPTION

Fuel consumption load 110%	g/Kw.h	209.4L/H
Fuel consumption load 100%	g/Kw.h	188.1L/H
Fuel consumption load 75%	g/Kw.h	136.6L/H
Fuel consumption load 50%	g/Kw.h	92.9L/H
Fuel consumption load 25%	g/Kw.h	55.2L/H

ENGINE STANDARD EQUIPMENT

- ◆ Air-Air Intercooler
- ◆ Structure steel base
- ◆ Crankcase breather
- ◆ Battery charging alternator
- ◆ Lubricating oil cooler
- ◆ Fuel filters, full flow paper element
- ◆ Fuel transfer pump, gear driven, plunger type

- ◆ Electrical type governor
- ◆ Lubricating oil filter, full flow paper element
- ◆ Lubricating oil pump, gear driven
- ◆ Exhaust dry manifold
- ♦ 50°C ambient radiator
- ♦ Blower fan, fan drive
- ◆ 24V DC electric starting motor



Photo for reference only



ALTERNATOR

Brand Model

DNG POWER 634G

Standby Output: 1375KVA/1100KW Rated Output: 1250KVA/1000KW

Standards

meet the requirements of BS EN 60034 and the relevant section of other international standards such as BS5000,VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359. Other standards and certifications can be considered on request.

Technical data

Stator Winding Double Layer Concentric Winding Pitch Two Thirds

Winding Leads 12

Connecting Type 3 Phase and 4 Wires, "Y" type connecting

Altitude ≤1000m

Exciter Type Brushless, self-exciting

Telephone Influence Factor (TIF) <50 THF <2% Voltage Regulation, Steady State $\le\pm1\%$ Alternator Efficiencies 92.30%

GENERATING SET DATA

Voltage Regulation	≥±5%
Voltage Regulation, Stead State	≤±1%
Sudden Voltage Warp (100% Sudden Reduce)	≤ + 25%
Sudden Voltage Warp (Sudden Increase)	≤-20%
Voltage Stable Time (100% Sudden Reduce)	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Regulation, Stead State	≤5%
Frequency Waving	≤1%
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%
Sudden Frequency Warp (Sudden Increase)	≤-10%
Frequency Recovery Time(100% Sudden Reduce	≤5S
Frequency Recovery Time (Sudden Increase)	≤5S

SMARTGEN GENERATOR CONTROL MODULE FROM CHINA

Type & Design

HGM6110 series automatic controller, integrating digital, intelligent and network techniques, is used for automatic control and monitoring system of genset. It can carry out functions of automatic start/stop, data measurement, alarm protection and three "remote" (remote control, remote measure and remote communication). The controller uses LCD display, optional display interface including Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French with easy and reliable operation.

Controls & Monitoring

- ◆ Mode selection & start engine button with interlock key switch system
- ◆ Menu navigation button
- ◆ LCD display for: AC amperage-each phase and earth current, AC voltage-each phase and neutral, Frequency Hz, Operation hours run, Lub, Oil pressure, Cooling water temperature, Generator load kW/Kva, Generator Load kW/Kva
- ◆ Emergency stop pushbutton
- ◆ AMF function

Safety Shutdown Protection and LED indicators

High engine temperature, Low oil pressure, Fail to start, Generator over speed / Frequency, Generator under speed / Frequency

Generator high voltage, Generator low voltage, Oil pressure sender circuit, Loss of Speed signal, Emergency stop

Mounting

Fabricated cubicle mounted on individual bracket with anti-vibration isolator

Electrical Design

In accordance with BS EN 60950 low voltage directive, BS EN 61006-2 and 61006-4 EMC directive. The optional interface can provide real time diagnostic facilities.



Note: 1. Control panel can be custom designed,

2. Control module can be optional, ComAp, Deepsea, Smartgen, Harsen etc.