

Model: DGC-275

Powered by CUMMINS



DIESEL GENERATING SET 400/230V-50Hz-3Phase

PERFORMANCE DATA:		
Model Rated	DGC-275	
Alternator Brand:	STAMFORD	UCDI274K
Diesel Engine Brand:	CUMMINS	6LTAA8.9-G2
Power (ESP)	KVA/KW	275/220
Power (PRP)	KVA/KW	250/200
Phases		3
Starter Voltage	V	24
Rated Current	А	396
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Liter/hour	53L/h
Fuel Tank Capacity	Liter	Open Type: 303/
		Silent Type: 460
Noise level	dB(A)@7m	Silent Type: 76±2
		•

Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility

power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

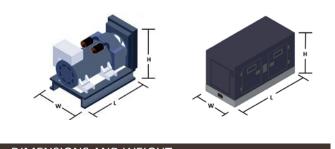


Therefore UKAS

Duragen Company with quality certification ISO 9001 and only Stamford's authorized distributor in Thailand

STANDARDS:

Generator Set: GB/T2820-2009, ISO8528



DIMENSIONS AND WEIGHT:		
GEN-Set	Dimension (L*W*H)	Weight
Open Type	2550mm x980mm x1585mm	2022
Silent Type	3686mm x1256mm x2068mm	2679

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting under frame tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine

DURAGEN ENGINEERING CO., LTD

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ENGINE SPECIFICATION: CUMMINS 6LTAA8.9-G2 Model Engine speed Rated 1500 RPM Cylinder /Arrangement 6/L Displacement 8.9 L Bore and Stroke 114mm×145mm Compression ratio 16.6:1 Max. stand by power at rated RPM 240 KW ≤1% Frequency regulation, steady state Governor: type Electrical Aspiration and Cooling Turbocharged & After cooler Exhaust System Exhaust gas flow 634 L/s Exhaust temperature 470°C 10kPa Max back pressure



ALTERNATOR SPECIFICATION: STAMFORD		
UCDI274K		
3		
0.8		
4		
1		
Direct		
Selft Excited		
H / H		
IP23		
AS440		
≤1000m		
2/3		
6/12		

Fuel System

Fuel consumption100% (of the Prime Power)	53 L/h
Fuel consumption 75% (of the Prime Power)	39 L/h
Fuel consumption 50% (of the Prime Power)	27 L/h
Fuel consumption 25% (of the Prime Power)	15 L/h
Oil System	
Total oil capacity w/filters	27.6 L
Air intake	
Engine air flow	254 L/s
Coolant System	
Radiator & engine capacity	47.0 L
Max water temperature	110 °C
Thermostat	82-93°C

- Cummins engines with advanced design, reliable performance, durable operation
- Alloy-steel and connecting steel-lever, high durability
- High combustion efficiency and low fuel consumption, work continuously
- P/T pump injection technology, low cost, completely combustion

STANDARDS

- BS-5514, DIN-6271, ISO-3046

Note: All data sheets for reference only and subject to change without prior notice

FEATURES

- Utilizing wire-wound* (random-wound) technology
- Environment alternators are the industrial benchmark for all generator set configurations.
- Brushless excitation with AVR
- IP21, IP22, IP23, IP44 enclosure protection,
- The ideal solution for marine/offshore, UPS, telecoms, basic and advanced protection, construction and other continuous or standby power applications.

STANDARDS

- GB755, BSEN60034, BS5000-3, VDE0530, IEC34, CSAC22.2-10, BSENISO9001, IB100, AS1359, IEC 60034-1, NEMA MG-1 22, 32 & 33, ISO 8528-3, EN 61000-6-2 and 6-4
- All alternators are manufactures in IOS 9001 and ISO 14001 environments.



STAMFORD | AvK

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CONTROL PANEL

MODEL:	DSE 7320
	AUTO START & AUTO MAINS FAILURE CONTROL MODULES
DIMENSION	OVERALL 240mm x 181mm x 42mm (9.4" x 7.1" x 1.6")
PANEL CUT-OUT	220mm x 160mm (8.7" x6.3")
WEIGHT	400g (0.4kg)

KEY FEATURES

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customizable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW & kV Ar protection
- Reverse power (kW & kV Ar)
 protection

- LED and LCD alarm indication
- Power monitoring (kW h, kV Ar, kVAh, kVAr h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- True dual mutual standby with load balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via
- DSE Configuration Suite PC software
 User selectable RS232 and RS485
- communicationsConfigurable Gencom pages

KEY BENEFITS

- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Multiple date and time scheduler
- Set maintenance periods can be configured to maintain optimum engine performance
- Ethernet communications (via DSE860/865 modules), provides advanced remote monitoring at low cost
- Modules can be integrated into building management systems(BMS)
 - Increased input and output expansion
- capability via DSENet®License-free PC software
- IP65 rating (with supplied gasket) offers
- increased resistance to water ingress
 PLC editor allows user configurable functions to meet specific application requirements.

IPC MEMBER

SOCIATION CONNECTING



STANDARD CONTROL FUNCTIONS ENGINE

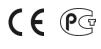
- Coolant Temperature
- Oil Pressure (RSI or Bar)
- Oil Temperature
- Running Time
- Engine Battery Volts
- Engine Speed
- Fuel Level

AC GENERATOR

- AC Voltage (ph-ph) and (ph-N)
- DC Voltage*
- Current (Amps)
- Frequency (Hz)
- Load (KW, KVA, KVAr, KWh, KVA h, KVAr h)
- Phase Sequence

WARNING/SHUTDOWN WITH COMMON LED INDICATION OF

- Over / Under speed shutdown
- Low oil pressure warning
 and
- shutdown
 - High coolant temperature
- Fail to start (Over crank)
 shutdown
- Over Current warning
- Over / Under voltage
- Over / Under frequency
- Low / High battery voltage
- Emergency stop
- KW Overload







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