

Model: DGC-1100

Powered by CUMMINS



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

PERFORMANCE DATA:		
Model Rated	DGC-1100	
Alternator Brand:	STAMFORD	S6L1D-E41
Diesel Engine Brand:	CUMMINS	KTA38-G5
Power (ESP)	KVA/KW	1100/880
Power (PRP)	KVA/KW	1000/800
Phases		3
Starter Voltage	V	24
Rated Current	А	1588
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Liter/hour	209L/h
Fuel Tank Capacity	Liter	Open Type: /
		Silent Type: -
Noise level	dB(A)@7m	Silent Type: 88±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.

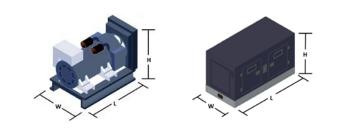




Duragen Company with quality certification ISO 9001 and only Stamford's authorized distributor in Thailand

STANDARDS:

Generator Set: GB/T2820-2009, ISO8528



	DIMENSIONS AND WEIGHT:		
Dimension (L*W*H)	Weight		
4325mm x2060mm x2208mm	7580		
6058mm x2438mm x2519mm	10758		
	4325mm x2060mm x2208mm		

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 Model KTA38-G5 Engine speed Rated 1500 RPM 12 / 60 °V Cylinder /Arrangement Displacement 37.8 L Bore and Stroke 159mm×159mm 13.9:1 Compression ratio Max. stand by power at rated RPM 970 KW Frequency regulation, steady state ≤0.25% Governor: type Electrical Aspiration and Cooling Turbocharged & After cooler Exhaust System Exhaust gas flow 3306Kg/min Exhaust temperature 513°C 76mmHg Max back pressure



ALTERNATOR SPECIFICATION: STAMFORD	

S6L1D-E41
3
0.8
4
1
Direct
PMG Excited
H / H
IP23
MX341
≤1000m
2/3
6/12

Fuel System

Fuel consumption100% (of the Prime Power)	209 L/h
Fuel consumption 75% (of the Prime Power)	/ L/h
Fuel consumption 50% (of the Prime Power)	/ L/h
Fuel consumption 25% (of the Prime Power)	/ L/h
Oil System	
Total oil capacity w/filters	135.0 L
Air intake	
Engine air flow	1213 L/s
Coolant System	
Radiator & engine capacity	225.0 L
Max water temperature	104 °C
Thermostat	82-93°C

- Cummins engines with advanced design, reliable performance, durable operation
- Alloy-steel and connecting steel-lever, high durabilityHigh 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 communications
- Configurable 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.



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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IPC MEMBER

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