Model: **DGS-820H** *Powered by* **Hyundai (Doosan)**

POWER	PRIME	STANDBY
KVA	**740**	**820**
KW	**590**	**650**

GENSET SPECIFICATIONS	
ENGINE	DP222LC
Voltage (V)	380/220
Phase	3
Frequency (Hz)	50
RPM (rpm)	1500
Power factor	0.8
Fuel Consumption (l/h)	
◦ **110%**	172.8
◦ **100%**	161
◦ **75%**	119.1

DIMENSIONS AND WEIGHT	
Dimensions (LxWxH) (mm)	≤ 5000x1700x2400
Weight (kg)	≤ 6155
Noise level @ 7m	≤ 75 ∓ 5dB
Fuel tank	Option

Remarks:

1. All specifications in this catalog are subject to change withour prior notice for product improvement purposes.
2. All images shown are for illustrative purpose only.
3. Final weight and dimensions will depend on completed specification.

*** Standard reference condition::** air inlet temperature 27℃, altitude 100m (328ft) A.S.L. 30% relative humidity

*** Sound proof canopy:** Weatherproof steel canopy with high-durability powder coating.Fire-retardant Rockwool insulation for maximum safety. Optimized airflow design to prevent overheating during full-load operation.

1. Prime power: ISO 8528 prime power is the maximum power available during a variable power sequence, which maybe run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.
2. Standby power: It is defined as the maximum power available, under the agreed operating conditions, for which the generating set capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

Manufactured/Tested in accordance with ISO 8528.

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ENGINE : Hyundai (Doosan) DP222LC

GENSET SPECIFICATIONS	
Governor Type	Electric
Cylinders Number	12V
Displacement (l)	21.927
Compression Ratio	15:1
Cooler type	Water cooling, fan and radiator
Aspiration	Turbo charged and intercooled
Bore x Stroke (mm)	128 x 142
Total lubricant capacity (l)	40
Engine's weight (kg)	1420

ALTERNATOR

GENSET SPECIFICATIONS	
No of bearings	1
Pole	4 pole, brushless
Connection type	Star
Insulation class	Class H
Voltage regulator	A.V.R
Voltage regulation	∓ 1%
Excitation system	Self-excited
Protection rating	IP23
Alternator's weight(kg)	2140

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CONTROLLER : DSE 7320 (Made in U.K)

MEASUREMENTS

- Mains & genset voltages
- Mains & genset frequency
- Mains & genset phase currents
- Main & genset power (kVA - kW - kVAr)
- Power factor Cos φ
- Hours-counter
- Battery voltage
- Engine speed r.p.m.

COMMANDS AND OTHERS

- Four operation modes: OFF - Manual starting - Automatic starting - Automatic test
- Pushbutton for forcing Mains contactor or Genset contactor
- Push-buttons: start/stop, fault reset, up/down/page/enter selection
- Remote starting and stopping availability
- DC system disconnection switch
- Acoustic alarm
- Automatic battery charger
- Fully configurable via PC using USB, RS232 & RS485 communication
- Settable PASSWORD for protection level

PROTECTIONS

- Engine protections: low fuel level, low oil pressure, high engine temperature
- Genset protections: under/over voltage, overload, under/over frequency, starting failure, under/over battery voltage, battery charger failure
- Over current protection
- Independent earth fault protection

CONTROLLER OPTIONS

DEEPSEA 6120	DEEPSEA 7320	DEEPSEA 8620	ComAp AMF20	ComAp IL9	Sices GC315
U.K	U.K	U.K	Czech	Czech	Italy

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