

# DOOSAN

G80-IIIA & G100-IIIA | Product Range



# New Stage IIIA generators

## For a greener future



### Reliable electrical power supply

The output performance stability of these two new generators is ensured by an optimized powertrain featuring a combination of John Deere Stage IIIA engines and Leroy Somer alternators. The G80-IIIA and G100-IIIA have a standard fuel capacity offering a minimum of 12 hours of autonomous operation, at 75% of the load. A 24 hour onboard fuel tank configuration is available as an option.

Powerful Leroy Somer alternators with the AREP excitation system provide best-in-class motor-starting performance, ideal for powering pumps, cranes and other applications with high start-up demands. To increase long term reliability in harsh environments, both models feature as standard "heavy duty" protection of the rotor and stator windings.



### Flexible fuel supply system

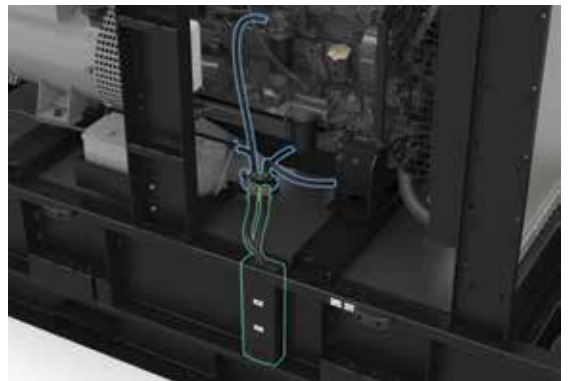
The innovative fuel tank frame system, ensuring 110% fluid containment capacity, provides the highest flexibility available in the generator market. The main advantage of this system is the interchangeability between 12 and 24 hours autonomy configuration.

In addition, as fuel quality and storage are the main concerns for rental companies, routine fuel tank maintenance tasks have been greatly simplified with special attention to the fuel tank cleaning

and port draining processes.

A robust 3-way fuel supply valve is available as an option.

Combined with an external fuel connection module, the system will provide maximum autonomy.



### Easy and safe operation

The electrical control and power compartment has been designed to meet the highest safety, reliability and flexibility requirements. All control functions are grouped together on a common,

simple-to-use operator control panel with easy-to-read analogue gauges displaying critical operating parameters at a glance.

The power supply pedestal features a robust busbar connection with high quality electrical protection and an adjustable earth leakage relay as standard features. A multi grounding/neutral module is also available as an option.

Safe and easy access to key lifting and maintenance areas has been a priority throughout the design of these new generators.



# Specifications



| Models   | G80-III A                | G100-III A               |
|--|--------------------------|--------------------------|
| <b>Electrical performance and components</b>                             |                          |                          |
| Prime power @ 1500 RPM (50 Hz)   | 80 kVA                   | 100 kVA                  |
| Stand-by power @ 1500 RPM (50 Hz)  | 88 kVA                   | 110 kVA                  |
| Frequency  | 50 Hz (60 Hz - optional) | 50 Hz (60 Hz - optional) |
| Voltage, single phase / triple phase (50 Hz)                             | 230 V / 400 V            | 230 V / 400 V            |
| Maximum sound power level @ 75% load                                     | 94 LwA                   | 95 LwA                   |
| Alternator make  | Leroy Somer              | Leroy Somer              |
| Alternator model   | LSA 43.2 L8              | LSA 44.2 VS45            |
| Alternator excitation type   | AREP                     | AREP                     |
| Alternator insulation class  | H                        | H                        |
| Alternator IP rating   | IP 23                    | IP 23                    |
| Main breaker make  | Schneider Electric       | Schneider Electric       |
| <b>Engine</b>  |                          |                          |
| Make   | John Deere               | John Deere               |
| Model  | 4045 HFG82               | 4045 HFG82               |
| Emission compliance  | EU Stage IIIA            | EU Stage IIIA            |
| Prime power (engine - net)   | 75 kW                    | 93 kW                    |
| Cylinders  | 4 (in line)              | 4 (in line)              |
| Electrical supply (DC)   | 12 V                     | 12 V                     |
| Speed regulation accuracy (steady state)                                 | +/- 0.25%                | +/- 0.25%                |
| Fuel tank, usable capacity - std / extended                              | 280 l / 560 l            | 280 l / 560 l            |
| Fuel consumption @ 75% of the load                                       | 14.3 l/h                 | 19.6 l/h                 |
| Runtime @ 75% of the load - std / extended fuel tank                     | 19.5 h / 39 h            | 14.3 h / 28.6 h          |
| <b>Dimensions &amp; weights</b>  |                          |                          |
| Length   | 2739 mm                  | 2739 mm                  |
| Width  | 1200 mm                  | 1200 mm                  |
| Height - std / extended fuel tank  | 1666 mm / 1834 mm        | 1666 mm / 1834 mm        |
| Dry weight - std / extended fuel tank                                    | 1798 kg / 1975 kg        | 1858 kg / 2035 kg        |
| Wet weight - std / extended fuel tank                                    | 2070 kg / 2495 kg        | 2130 kg / 2555 kg        |
| <b>Standard features</b>   |                          |                          |
| Two element air filter   | ○                        | ○                        |
| Fuel filter with water separator   | ○                        | ○                        |
| Radiator access door   | ○                        | ○                        |
| Coolant fluid and engine oil external drains                             | ○                        | ○                        |
| Double wall fuel tank standard runtime (min. 12 h at 75% of the load)    | ○                        | ○                        |
| Containment base, 110% of all fluids                                     | ○                        | ○                        |
| Removable fuel filling port for tank cleaning                            | ○                        | ○                        |
| Combined containment and fuel tank drain plugs                           | ○                        | ○                        |
| Forklift pockets   | ○                        | ○                        |
| Central lifting point  | ○                        | ○                        |
| Safe lifting point access steps  | ○                        | ○                        |
| Keys on all access doors   | ○                        | ○                        |
| Robust battery isolator switch   | ○                        | ○                        |
| Analogue panel (gauges, auto-start control and alarms / shutdown module) | ○                        | ○                        |
| Automatic start voltage free contacts                                    | ○                        | ○                        |
| 4-pole circuit breaker   | ○                        | ○                        |
| Adjustable earth leakage protection 30 mA - 30 A                         | ○                        | ○                        |
| Robust connection busbar   | ○                        | ○                        |
| Heavy duty alternator winding impregnation (LS System 2)                 | ○                        | ○                        |
| <b>Options</b>   |                          |                          |
| Digital control panel  | ■                        | ■                        |
| Dual frequency with digital control panel                                | ■                        | ■                        |
| Multiple neutral / earthing system                                       | ■                        | ■                        |
| Double wall fuel tank extended runtime (min. 24 h at 75% of the load)    | ■                        | ■                        |
| 3-way fuel supply internal valve block                                   | △                        | △                        |
| 3-way fuel supply internal valve block - external fuel connection ready  | △                        | △                        |
| Containment / fuel drain riveted cover                                   | ■                        | ■                        |
| Frame peripheral rubber protection                                       | △                        | △                        |
| Earth rod and cable  | △                        | △                        |
| Heavy duty alternator winding impregnation (LS System 4)                 | ■                        | ■                        |
| Oil sump pump  | △                        | △                        |
| Containment manual drain pump (factory mounted)                          | ■                        | ■                        |
| Socket panel CE  | △                        | △                        |
| Socket panel UK  | △                        | △                        |
| Battery charger (230 V) and engine block heater                          | △                        | △                        |
| Refinery kit   | ■                        | ■                        |
| Customized colour (canopy / canopy and frame)                            | ■                        | ■                        |

○ = Standard   ■ = Optional   △ = Retrofittable option



# Your journey with a Doosan Portable Power generator starts here



## Warranty

We protect your purchase or lease with a 1 year or 2000 hours warranty (whichever occurs first) on the entire generator package, 2 years or 4000 hours on the alternator as well as 2 years or 4000 hours on John Deere engines.

## Aftermarket solutions and service

- Dealer stocking program for frequently used parts
- Express availability for other parts
- Support for you and your dealer with diagnostic expertise on difficult service problems

## Financial solutions

We provide financing and leasing options tailored to meet your individual business needs. Our streamlined loan application and credit approval process can quickly make your business plans a reality.

## Remarketing services

We help our customers to sell and buy used equipment by providing them a direct online connection to a large inventory of previously-owned equipment, anywhere in the world.



With Doosan Portable Power, you are not just buying a piece of equipment. You are investing in the strength and expertise of Doosan Portable Power and its people. From engineers and factory technicians, to field representatives and your dealer, we support your purchase. We are committed to helping you realise maximum value job after job, day after day. Wherever you see a piece of Doosan Portable Power equipment, you'll know that all of the Doosan Portable Power team is behind it.

Our industry-leading support system will help to keep your Doosan Portable Power equipment up and running for as long as you own it. Doosan Portable Power is committed to supporting each product throughout its life. We are committed to offering you an invaluable source of product information, financial service, training, technical service bulletins, service, parts and more...

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**More than generators**



**Portable Power**

Specifications and design are subject to change without notice. Pictures of Doosan Portable Power products may show other than standard equipment.

