

IVECO N67 TM7 | STAMFORD UCI274H





Emergency Balance Range

Ideal for...









Weight with liquids without fuel: 1640 kg



L: 2650 mm W: 1100 mm H: 2005 mm

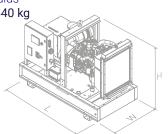


Image for orientation purposes. Dagartech reserves the right to modify the data in this technical sheet without prior notice. The weight of the equipment may vary depending on the equipment.





EU Stage 0

DAGARTECH*



BALANCE RANGE

Water-cooled



Open



CE Conformity

1. General technical data

General technical data

IVECO N67 TM7		
STAMFORD UCI274H		
G2		
50Hz		
400/230V		
DSE 6020 MKII		
340		
N/A (Indoor)		
N/A (Indoor)		

Power¹ (m.p. cos φ 0,8)

PRP (kVA / kW)	200 / 160
ESP (kVA / kW)	220 / 176

¹PRP: Continuous power ("Prime Power"). ESP: Emergency Standby Power according to ISO8528-1. **Maximum active power tolerance (kW) ±5%**

Voltage	PRP (KVA/KW)	ESP (KVA/KW)	Amperage (A)
400/230V	200 / 160	220 / 176	318

Directives and Regulations

ENVIRONMENTAL CONDITIONS STANDARD ISO 8528-1:2018: 25°C, 100kPa and 30% relative humidity:

- Prime Power (PRP): Data on electrical power available at variable load without limit of hours per year. An overload of 10% is allowed for 1h out of 12. According to ISO 8528-1:2018.
- Emergency Standby Power (ESP): Data on electrical capacity available at variable load in case of emergency according to ISO 8528-1-2018

The DAGARTECH Generating Set has EC labelling which includes the following directives:

- 2006/42/EC. Machine Safety Directive.
- EN ISO 8528-13:2016. Part 13: Safety.
 Alternating current generator sets powered by reciprocating internal combustion engines.
- 2014/30/EU. Electromagnetic Compatibility

 Directive
- 2000/14/EC. Noise Emissions Directive. Sound power levels evaluated in accordance with the procedure laid down in the directive.
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2).



IVECO N67 TM7 | STAMFORD UCI274H

2. Engine specifications

2.1.	Make and mode	·l	IVECO N67 TM7			
General technical data	r.p.m.		1500 194			
of the engine	Maximum ESP po	wer (kWm)				
Power PRP (kWm)			176,5			
	Fuel		Diesel 6 cylinders 6700			
	No. of cylinders					
	Cylinder capacity ((c.c.)				
	Compression ratio)	17,5	17,5:1		
	Cooling system		Water-o	cooled		
	Type of regulation		mecha	nical		
	Type of engine/inje	ction/suction	Diesel/direct/t	urbocharged		
2.2.	Type of fuel		Dies	sel		
Fuel	Fuel tank capacity	,	34	0		
2.3. Consumption	Consumption (I/h)		Autonomy (h)			
and autonomy	PRP	ESP	PRP	ESP		
50%	24	-	14,2	-		
75%	37,3	-	9,1	-		
100%	42,1	49	8,1	6,9		
2.4.	Fan flow (m³/s)		3,8			
Cooling	Fan power consur	nption (kW)	5			
system	Radiator back pres		N/A			
	Total refrigerant ca	• • • • • • • • • • • • • • • • • • • •	25,5			
0.5	0.1 (1)		10			
2.5. Lubrication system	Oil capacity (I)		12	<u>′</u>		
2.6. Intake system	Combustion air in	take flow (m³/h)	586			
2.7.	No. of batteries		2			
Starter system	Battery characteris	stics	12V 44Ah			
System	Start-up voltage (\	/)	12	V		
2.8.	Exhaust gas flow ((kg/h)	O [PRP]	793 [ESP]		
Exhaust	Exhaust gas temp	, ,	600° [PRP]	N/Aº [ESP]		
system	Exhaust outside d		3,5" - Ø88,9mm			
		\ /	5			

 6 cylinders 4-stroke diesel engine online with mechanical regulation mechanical by means of a fuel pump, original from the manufacturer.



 Direct injection and suction system turbocharged. Original manufacturer's particle separator filter.

- Refrigeration through cooling liquid, fully distributed in the closed circuit run by an engine driven pump, tropicalised radiator, original from the engine manufacturer.
- Crankshaft-driven pump lubrication system. The filter is a full-flow insert cartridge, front housing, original from the engine manufacturer.
- Air intake system for turbofed combustion with two-stage filter, original from the engine manufacturer.
- Electric motor starting system, battery (no maintenance) with disconnector and load alternator driven by the starter 12V, original elements from the engine manufacturer.

Exhaust attenuation level -10dB(A)

DAGARTECH®

3. Alternator specifications

General technical data for the alternator

Make and model STAMFORD UCI274H			
No. of poles	4		
Insulation class	Н		
No. of threads	12		
Mechanical protection index	IP23		
Voltage Regulator (AVR)	AS440		
Voltage regulation	±1%		
ESP power 27°C (kVA)	220		
Power PRP 40°C (kVA)	200		
No. of phases	3		
Power factor (cos φ)	0,8		

Performance η (%)

50%	75%	100%	110%
93,9%	93,8%	93,3%	93,0%

· Brushless 4-pole alternator.

Robust mechanical structure with easy access to connections and components. Insulation class H, coil pitch 2/3 and self-excited AVR.

Protection with premium epoxy resins. High voltage parts are impregnated under vacuum, which always means very good insulation.

Standard regulations that the alternator fulfils:

AS 1359 | IEC 34-1 1 | BS EN 60034-1 | VDE 0530 | BS 5000 | CAN/CSA-C22.2-100 | NEMA MG1-32.

Low wave distortion:

- THD (100% load) = 2%
- THF < 2%

Complies with: EN61000-6-3, EN61000-6-2 regarding radio interference.

4. Frame Specifications

- · Unit mounted on electro-welded high-resistance steel frame, painted with epoxy-polyester powder paint.
- · Connection of the assembly to the frame by means of antivibration dampers.
- Fuel tank located on the frame itself. The engine is equipped with a measuring gauge and fuel system.
- Tested in a saline mist chamber according to ASTM B-117-09. resistance 500h.



Do you need an open or soundproofed generator?

The choice between an open or soundproofed unit will depend mainly on the location where it is to be installed and the permissible noise conditions at the site. So, if the equipment is going to be outdoors, or if noise pollution rates are a critical factor in your project, the obvious decision will be to opt for a soundproofed group.

Our canopies are tested in a salt spray chamber according to standard ASTM B-117-09 (resistance 720H. IP44 mechanical protection grade).



Get in contact with us and we will advise vou.

6. Control panel

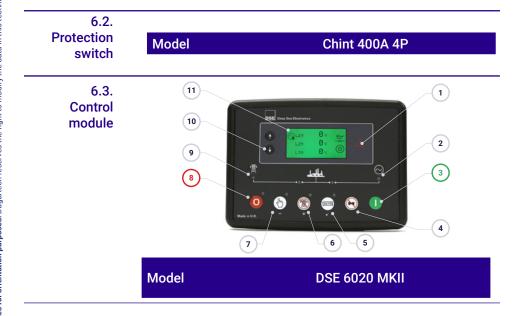
6.1. Main elements of the control panel

- Protection panel, distribution with automatic control module which allows you to work in manual, automatic or signal mode.
- · Emergency stop button.
- Deep Sea Electronics battery charger, designed to be permanently connected to the battery and maintain 100% of the charge. The charger switches to float mode when charging is complete:

Model DSE 9255 24V, 5A

- · Protections:
 - 4-pole magnetothermic protection against overloads and short circuits.
 - Protection fuses for the control set.





DSE 6020 MKII DEEP SEA control card, with mains grid monitor. The genset will automatically start up when detecting a fault in the electric power network and it will turn off automatically as well, when the electrical supply is re-established.

It can also work in manual mode and by signal. It allows you to monitor a wide range of generator parameters and display information alerts, status and alarms.

The module includes USB communication ports, 4 configurable digital inputs, 3 analog inputs, 6 configurable outputs, emergency stop button, 8-35 V battery charger.

It has 132x64p illuminated LCD display with 4 lines of text, 5-key navigation through menus, programmable clocks and alarms, reading and displaying parameter values, including RMS values.

The entire module is easily configurable via PC using the DSE specific software configuration. Different operating modes: AUTOMATIC mode, MANUAL mode, SIGNAL mode and TEST mode.

Other alternative configurations are available upon request to extend the capabilities of the operation modes.

- 1 Alarm indicator
- 2 Transfer to the generator (manual mode)
- 3 Start engine (manual mode)
- 4 Silence alarm
- 5 Automatic mode
- 6 Test mode
- 7 Manual mode
- 8 Genset stop
- 9 Main network transfer (manual mode)
- 10 Navigation keyboard
- Main status and instrument display

Environmental Tests that the module complies with:

BS EN 61000-6-2 (electromagnetic compatibility) | BS EN 61000-6-4 (electromagnetic compatibility) | BS EN 60950 (electrical safety) | BS EN 61000-6-2 (temperature) | BS EN 60068-2-6 (vibrations) | BS EN 60068-2-27 (shock)



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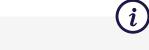
6. Control panel

	(Standard)	(Option)
6.3. Control module		* 44 ©
Model	DSE 6020 MKII	DSE 7320 MKII
Operating modes		
STOP mode	~	~
MANUAL mode	V	~
TEST mode	~	·
AUTO mode	V	~
Module configuration options		
PC	V	~
Group readings		
Generator voltage (F-F)	V	•
Generator voltage (F-N)	~	V
Generator current (A)	V	~
Generator frequency	V	•
Generator load F-N (kW / kVA / kVAr)	~	·
Total generator load (kW / kVA / kVAr)	~	V
Average generator power factor	•	·
Accumulated generator load (kW, kVAh, kWh, kVAh)	~	·
Network readings		
Network voltages (ph-N)	V	·
Network voltages (ph-ph)	V	•
Network frequency	•	•
Network current (A)	•	•
Network load ph-N (kW / kVA / kVAr)	•	•
Total network load (kW / kVA / kVAr)	•	•
Engine readings		
Coolant temperature	~	•
Oil pressure	V	~
Engine fuel level	V	~
Engine battery volts	V	~
Engine speed	V	~
Engine run time	V	V

Contact us and tell us what you need.



Ask us for further readings in generating sets equipped with electronically managed engines and DSE 7320MKII control module.



✓ Includes

■ Optional

× Not available

Consult

Readings available at control module level.

Confirm the availability of these readings for this generator and engine.



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6. Control panel

	(Standard)	(Option)
6.3. Control module	****	**************************************
Model	DSE 6020 MKII	DSE 7320 MKII
Engine protections		
High water temperature	V	~
Low oil pressure	V	~
Low water level	V	~
Fuel reserve by sensor	V	V
Second fuel tank control	•	·
Shutdown failure	•	·
Battery voltage failure	~	·
Battery charge alternator failure	V	V
Overspeed	•	·
Underfrequency	•	·
Failure to start	V	V
Emergency stop	•	·
Maintenance notice	•	·
Maintenance Alert	V	·
Alternator protections		
High frequency	•	·
Low frequency	•	·
High voltage	•	·
Low voltage	V	·
Short circuit	×	·
Asymmetry between phases	×	•
Incorrect phase sequence	×	V
Reverse power	×	·
Breaker Trip 4 poles	•	•
Overpressure alarm	V	·
Counters		
Hour meter	V	·
Kilowatt meter	V	~
Starter counter	V	V

Do you want a superior performance control module?

Contact us and tell us what you need.



Ask us for further readings in generating sets equipped with electronically managed engines and DSE 7320MKII control module.



IncludesNot available

module level.

OptionalConsult

Readings available at control

Confirm the availability of these readings for this generator and engine.

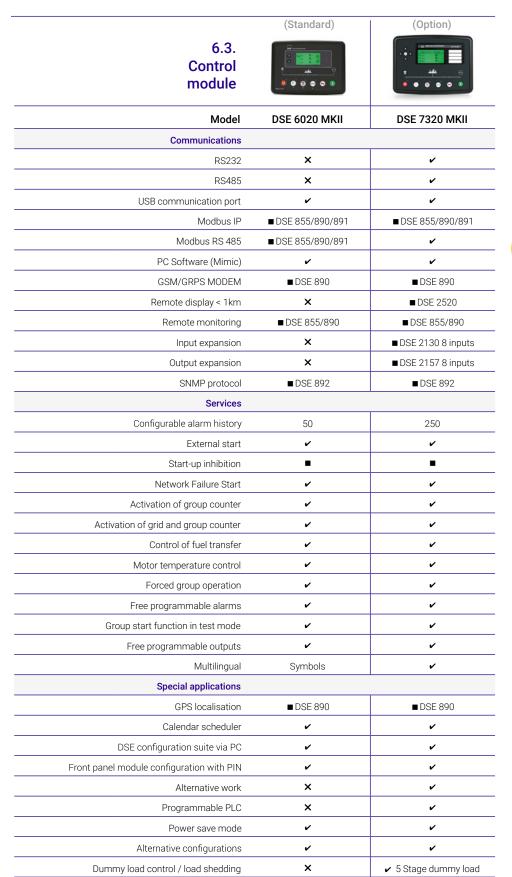
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6. Control panel



Do you want a superior performance control module?

Contact us and tell us what you need.



Ask us for further readings in

generating sets equipped with electronically managed engines and DSE 7320MKII control module.



Includes

■ Optional

× Not available

Consult

Readings available at control module level.

CONFIRM THE AVAILABILITY OF THESE READINGS FOR THIS GENERATOR AND ENGINE.



IVECO N67 TM7 | STAMFORD UCI274H

7. Standard Scope of Delivery



Engine

- IVECO N67 TM7 Diesel Engine, 1500 rpm water cooled.
- · With mechanical regulation.
- · Protection from hot parts.
- Electric motor starting system, battery (maintenance-free) with switch and load alternator driven by starter motor of 12V.
- · Industrial exhaust silencer of -10dB(A).



Alternator

- 12-Wire, 4-pole brushless STAMFORD UCI274H alternator with electronic voltage regulation type AVR (AS440).
- · With IP23 protection level.
- · Insulation class H.



Bench

- Electro-welded bench of high-strength steel.
- Painted with electrostatic epoxy-polyester powder paint.
- Anti-vibration dampers from the engine block to the bench.
- Fuel tank with capacity of 340 litres, located on the bedplate itself. Equipped with cleaning record (models > 75kVA) to facilitate maintenance work.
- With measuring gauge and installation of fuel to the engine.
- Liquid drainage connection to the outside (models > 75kVA).
- Tested in a salt spray chamber according to ASTM B-117-09 (500h resistance).



Control panel

- DeepSea Electronics automatic control module DSE 6020 MKII which allows you to work in manual, automatic or signal mode.
 - It offers multiple event logging and is fully configurable through DeepSea Electronics' free-access specific configuration software.
 - Three-phase network and group detection with measurement for configurations upon network failure.
- DeepSea Electronics battery charger DSE 9255 24V, 5A. Designed to be permanently connected to the battery and maintain 100% of the charge. The charger switches to float mode when charging is complete.
- · Protections:
 - · 4-pole magnetothermic protection against overloads and short circuits.
 - Protection fuses for the control set.



Other equipment

- · Emergency stop button.
- Reinforced pole centrally-mounted (units > 75kVA).



*CHECK THE SPECIFICATION ACCORDING TO THE MODEL.



8. Featured options available

Do you need to include some options to the standard equipment of this generator set to make it the perfect genset for you? We offer you three complete Kits with which to customize your Balance generator set quickly and easily.



KIT 1: Network failure

Adding an engine heater to your equipment will ensure that your generator set starts without problems in the event of any failure in the electrical network, and without the cold or humidity becoming a problem.



THE READINGS AND ALARM KIT IS INCLUDED IN THE SCOPE **STANDARD SUPPLY OF EQUIPMENT** STARTING AT 275KVA POWER.

KIT 2: Lecturas y alarma1

Your generator set can provide you with very useful information before any breakdown, maintenance work or, simply, during its operation.

If this is an important aspect for you, do not hesitate to include this Kit in your equipment, which has:

- Radiator level alarm sensor.
- Oil pressure reading sensor.
- Temperature reading sensor.



KIT 3: Exhaust installation

If you need a versatile solution for the evacuation of gases from your installation to the outside, choose this kit, equipped with 2 clamps and 3 meters of galvanized steel hose.



KIT 4: CE

If your generator is going to be installed in unregulated markets, we offer you this kit as an option. Includes protection of hot parts (hot plates).

Included in the standard scope of supply for European markets.

¹ Radiator level sensor not available for Baudouin 4M06 series engines.



Check the availability of these options according to the model and, if you do not find what you are looking for, please contact us. We have many more options to offer you.



IVECO N67 TM7 | STAMFORD UCI274H

9. Even more options

If you're looking for other features to complete your machine, don't worry.

Below we detail many of the options from the Balance range that we make available to you to turn your unit into a unique machine.



24 hour tank

AUTONOMY OPTIONS

Increase the autonomy of your generator up to 48 hours, including special tanks

You can choose between **different integrated tanks to increase the autonomy of the unit up to 48 hours** of operation.

You can also incorporate automatic fuel transfer systems for supply from external tanks.

	Capacity (I):		24h tank - Consultar I		48h tank - Consultar I	
% load	Consumption (I/h)		Autonomy (h)		Autono	omy (h)
Power	PRP	ESP	PRP	ESP	PRP	ESP
50%	24	-	N/A	-	N/A	-
75%	37,3	-	N/A	-	N/A	-
100%	42,1	49	N/A	N/A	N/A	N/A



Fuel particle separator filter

ENGINE - ALTERNATOR OPTIONS

- Electronic engine regulation/management (for models with mechanical regulation)
- Fuel particle separator filter.
- · Manual oil drainage pump.
- 6-way fuel valve kit.
- · Alternator anti-condensation resistors.
- Alternator superior impregnation systems.
- AVR MX341 + PMG ± 1% STAMFORD.
- AVR MX321 + PMG ± 0.5% STAMFORD.



9. Even more options



Central lifting point

MECHANICAL OPTIONS

- Retention tray (see change of dimensions).
- Liquid leakage probe (requires retention tray).
- · SilentBlocks for levelling.
- Damping anti-vibration springs.
- Lifting point (in models < 85kVA).



DSE 2157



DSE 334 network surveillance

COMMUNICATION OPTIONS

- Supplement to the DSE 7320 MKII control board (for models with the DSE 6020 MKII control board in the standard scope of supply).
- DSE 2157 8 potential free output (requires DSE 7320MKII).
- DSE 2130 8 inputs (requires DSE 7320MKII).
- DSE 2548 8 LED diodes (requires DSE 7320MKII).
- DSE 855.
- DSE 890 webnet.
- DSE 7420 module.
- DSE 334 network surveillance.



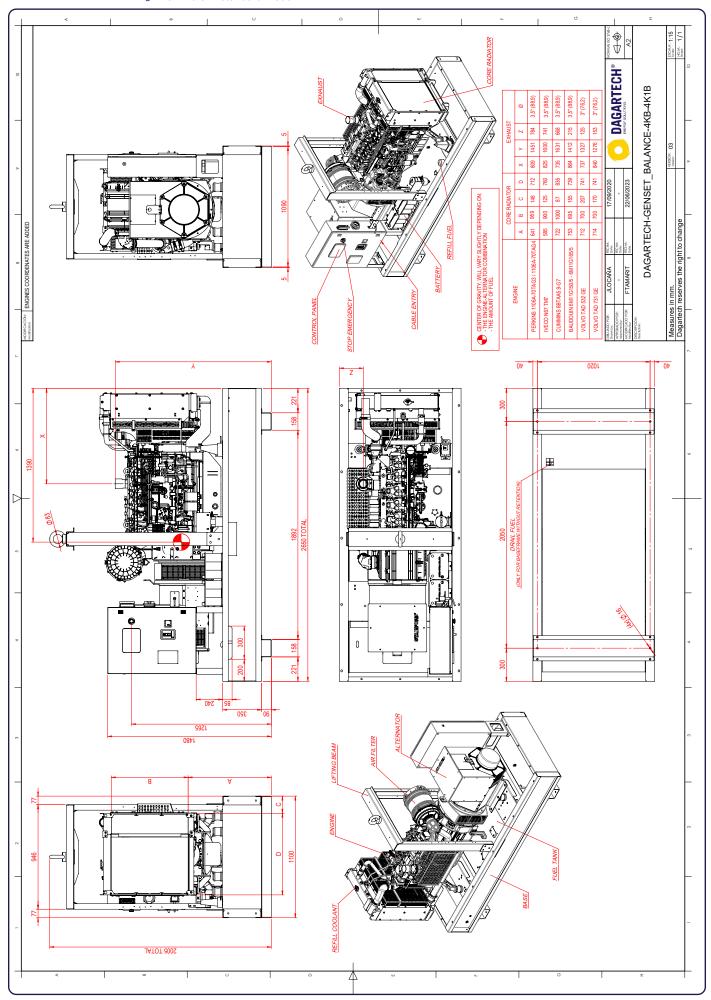
Socomec motorised switchboard

POWER OPTIONS

- Supplement to the Schneider circuit breaker.
- Differential protection.
- As an option, you can include a switch cabinet attached to the generating set.
 - Switching with Schneider contactors. 25 to 125 A.
 - Socomec motorised switches: ≥ 125A.



CHECK THE AVAILABILITY OF THESE OPTIONS DEPENDING ON THE MODEL



¿Necesitas el plano de instalación de la versión 24 horas?

Escríbenos info@dagartech.com

Llámanos +34 976 141 655

Do you need the technical drawing for the 24 hour version?

Write to us at info@dagartech.com

Call us at +34 976 141 655

Avez-vous besoin du plan d'installation pour la version 24 heures?

Écrivez-nous info@dagartech.com

Appelez-nous +34 976 141 655

Necessita de plano de instalação em versão com depósito de 24 horas?

Escreva-nos info@dagartech.com

Telefone-nos +34 976 141 655