

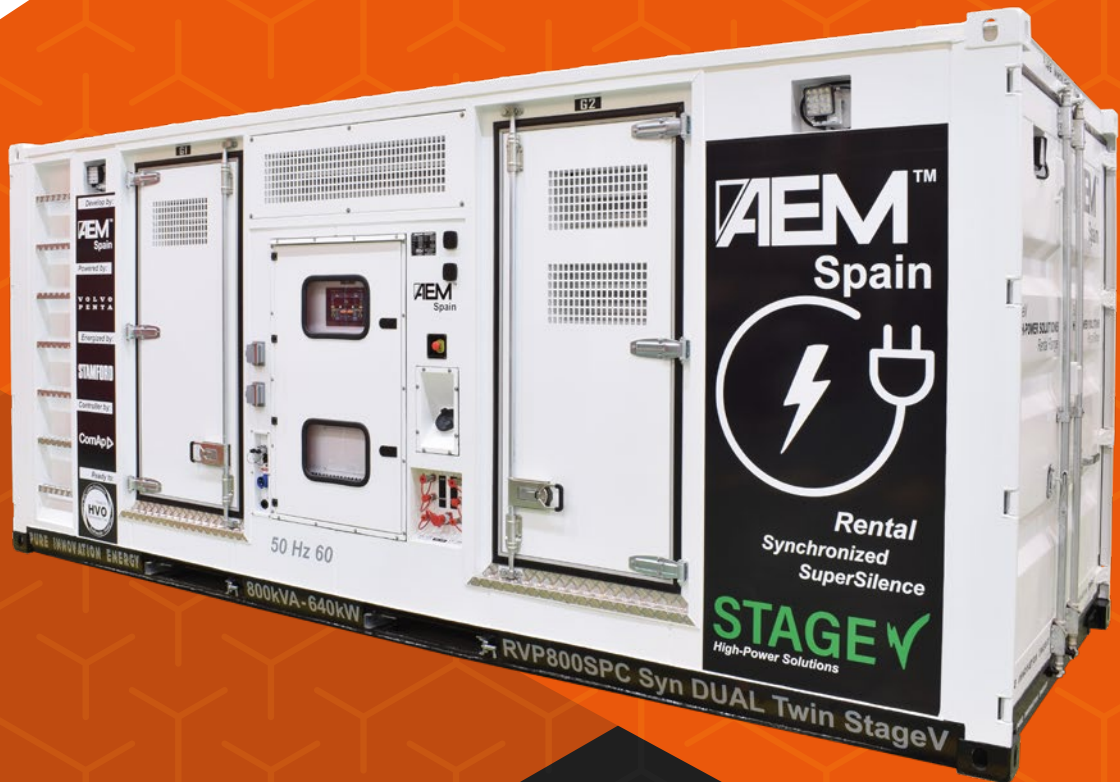


Spain

RVP800TWIN/S5

Data Sheet

RENTAL  
RANGE



PURE  
INNOVATION  
ENERGY

STAGEV  
LOW EMISSIONS  
ECO FRIENDLY

## RENTAL RANGE MOD. RVP800TWIN/S5

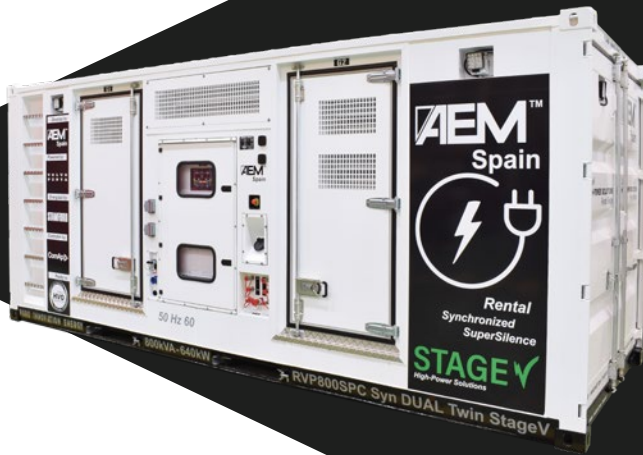
### Soundproof Series

#### Engine

Volvo Penta 2 x TAD1380GE

#### Alternator

Stamford S4L1D-D



### Power

|              | PRP | LTP |
|--------------|-----|-----|
| Power in kVA | 800 | 880 |
| Power in kW  | 640 | 704 |

### Consumption

|      | litres/hour |
|------|-------------|
| 25%  | 45,4        |
| 50%  | 83,8        |
| 75%  | 124         |
| 100% | 167,2       |

### General Specifications

|                   |                   |
|-------------------|-------------------|
| Revolutions [RPM] | 1500/1800         |
| Voltage [V]       | 400/230 - 480/277 |
| Frequency [Hz]    | 50/60             |
| Cos (Ø) [0-1]     | 0,8               |

### Glossary of Terms

- **PRP (Prime Power):** maximum power supplied by the generating set for continuous periods of time and with variable loads.
- **LTP (Limited Time Power):** maximum power released by the generating set for short and punctual emergency use periods. Generally about 10% more power of the PRP.
- **kVA (Kilovolt-ampere):** the most common unit for measuring the power of a generator. 1 kVA is equivalent to approximately 0.8 kilowatts power.

### Measurements and Weight

|                              |       |
|------------------------------|-------|
| Length (L) [mm]              | 6058  |
| Width (W) [mm]*              | 2438  |
| Height (H) [mm]              | 2591  |
| Volume [m3]                  | 38,27 |
| Weight [kg]                  | 14500 |
| Fuel tank [L]**              | 2350  |
| Urea / AdBlue / DEF tank [L] | 380   |
| Autonomy 75% [h]             | 19,0  |

\*Compact option: width 1180mm.

\*\*With the LF (Low Frame) option, the fuel tank capacity is reduced by approximately 50%.

### Emissions Certificate

This model complies with European emissions regulations for machinery (NRMM) 2016/1628/EC for Stage V gas emissions.

## ENGINE SPECIFICATIONS

### Brand and model

Volvo Penta 2 x TAD1380GE

### Cooling

Water



The engine provides the necessary mechanical energy to turn the alternator and generate electricity. Diesel engines are the most commonly used engines in our AEM generators due to their reliability and mechanical, ecological and economic performance.

### Flow - Installation

|                              |           |
|------------------------------|-----------|
| Refrigeration airflow [m3/h] | 23040 x 2 |
| Combustion air volume [m3/h] | 1326      |
| Exhaust gas flow [m3/h]      | 2634      |
| Exhaust gas temperature [°C] | 404       |

### Engine Data

|                                  | PRP        | LTP |
|----------------------------------|------------|-----|
| Power in kW (engine)             | 275        | 301 |
| Engine type                      | 4-stroke   |     |
| Number of cylinders              | 6          |     |
| Displacement [L]                 | 12,78      |     |
| Oil capacity [L]                 | 36 x 2     |     |
| Oil consumption (100%) [% Comb.] | 0,07       |     |
| Fuel consumption (100%)          | 191        |     |
| Bore / Stroke [mm.]              | 131/158    |     |
| Compression ratio                | 16,8       |     |
| Aspiration                       | Turbo      |     |
| Start-up system                  | Electric   |     |
| Type of regulation               | Electronic |     |
| Starter [kW]                     | 7          |     |
| Battery [Ah]                     | 2 x 140    |     |

**Remarks:** the powers of diesel engines for stationary applications refer to the following environmental conditions according to ISO 3046/1:

- Ambient temperature: 25°C
- Atmospheric pressure: 1000 mbar (750 mm/Hg)
- Relative humidity: 30%

When you purchase one of our generator sets, you will receive the Engine Manual with all the necessary detailed information. If you have any questions, please do not hesitate to contact our sales department.



HVO fuel ready, with up to 90% fewer emissions

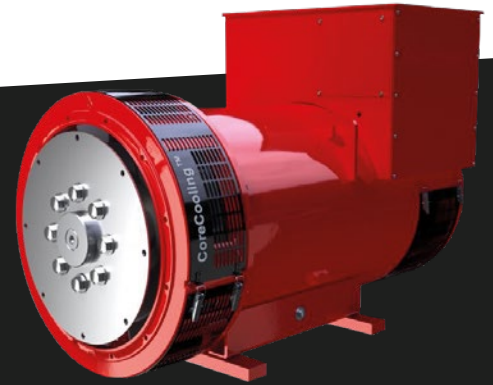
# ALTERNATOR SPECIFICATIONS

Brand available

Stamford

Model

S4L1D-D



The alternator is responsible for transforming the mechanical energy provided from the engine to electrical energy, generating an alternating current using electromagnetic induction.

It operates switching the polarity continually creating movement and producing energy. The most common frequencies are 50Hz and 60Hz, which means that the polarity of the current changes 50 or 60 times per second respectively.

**Remarks:** the environmental conditions reference for alternators, for stationary applications according to IEC 34-1, ISO 8528-3 and CEI 2-3 are:

- Ambient temperature: 40°C (30° NEMA)
- Altitude: 1000m above sea level (674 mm/Hg)

## Alternator Data

|                             |                        |
|-----------------------------|------------------------|
| Poles                       | 4                      |
| Standard type of connection | Star                   |
| Type of coupling            | S.A.E.                 |
| Insulation                  | Type H                 |
| Excitation                  | Self-excited brushless |
| Regulation                  | Electronic (A.V.R.)    |
| Type of support             | Single-bearing         |
| Coupling system             | Flexible disc          |
| Cos (Ø) [0-1]               | 0,8                    |

When you purchase one of our generator sets you will receive the Alternator Manual with all the necessary detailed information. If you have any questions, please do not hesitate to contact our sales departments.

## Model-Specific data

| Brand*   | Model   | Power |     |                        |         | Performance |      |      |      |
|----------|---------|-------|-----|------------------------|---------|-------------|------|------|------|
|          |         | PRP   | LTP | Short circuit capacity | Protec. | 25%         | 50%  | 75%  | 100% |
| Stamford | S4L1D-D | 310   | 341 | 300% (10s) Opci.       | IP23    | 92,4        | 94,2 | 93,8 | 92,9 |

\*Other brands available upon request: Leroy Somer, Mecc Alte, Linz...

## CONTROL PANELS

The electrical panels are responsible for monitoring and controlling the operation of the machine. Each generator is supplied with relevant manuals and recommendations.



### Manual, start-up signal or automatic control panels (ComAp, Deif, DSE)

- Manual Mode: the user is responsible for starting and stopping the machine according to their needs.
- Start-up/Stop Signal Mode: an external signal is responsible for sending the order to start or stop the genset.
- Automatic mode: the control unit constantly monitors the status of the network. In the event of a failure, the generator set starts up as the main power supply.
- The control panel is built in the machine.
- The control panel equips a control unit, which can be from ComAp, Deif or DSE, able to read voltages, frequencies, currents, active, reactive and apparent power, power factor, fuel level, readings from the engine ECU, etc. It can include a battery charger.
- Main engine protections: low battery level, fuel reserve, over and low speed, low oil pressure, high engine temperature, start-up and stop failure, etc.
- Main alternator protections: over and low voltage, over and low frequency, direction of rotation, power imbalance between phases.
- Other protections: differential protection and circuit breaker protection.

### Synchronized/Parallel Panels (ComAp, Deif, DSE)

- Synchronised or parallel mode: one or more machines work together with each other or with an existing grid to provide power in unison. For locations where business continuity is essential like: hospitals, refrigeration facilities, power plants, events, network supply support, transformer discharge, data centres, etc.
- The panel is usually built in the machine itself.
- The control panels it is equipped with (ComAp, Deif, DSE) are able to read voltages, frequencies, currents, active, reactive and apparent power, power factor, fuel level, readings from the engine ECU, among many others.
- Main engine protections: low battery level, fuel reserve, over and low speed, low oil pressure, high engine temperature, start-up and stop failure, etc.
- Main alternator protections: over and low voltage, over and low frequency, direction of rotation, power imbalance between phases and synchronisation protections.
- Other protections: differential protection and motorised circuit breaker protection.
- Tailored solutions, so the possibilities are virtually endless.



RB: Rental Basic, RP: Rental Premium, RC: Rental Compact, RSS: Rental Supersilence®,  
SPC: Soundproofed Container.

|   | AVAILABLE IN |    |    |     |     |
|---|--------------|----|----|-----|-----|
|   | RB           | RP | RC | RSS | SPC |
| CCV exhaust gas recirculation   |              | ✓  | ✓  | ✓   | ✓   |
| CoMap, Deep Sea, DEIF automatic control system                                      |              | ✓  | ✓  | ✓   | ✓   |
| 3-phase circuit breaker   | ✓            |    |    |     |     |
| 4-phase circuit breaker   |              | ✓  | ✓  | ✓   | ✓   |
| Electronic differential   |              | ✓  | ✓  | ✓   | ✓   |
| Alternator regulation board on the control panel                                    |              | ✓  | ✓  | ✓   | ✓   |
| Terminal block  | ✓            | ✓  | ✓  | ✓   | ✓   |
| Microswitch on terminal block for circuit breaker disconnection if door is opened   | ✓            | ✓  | ✓  | ✓   | ✓   |
| IP67 socket panel   |              | ✓  | ✓  | ✓   |     |
| Circuit breaker panel for IP67 sockets  |              | ✓  | ✓  | ✓   |     |
| Battery disconnecter  |              | ✓  | ✓  | ✓   | ✓   |
| Maintenance-free batteries  |              | ✓  | ✓  | ✓   | ✓   |
| Insulated exhaust (from 30 kVA)   |              | ✓  | ✓  | ✓   | ✓   |
| Residential exhaust -35 dB  |              | ✓  | ✓  | ✓   | ✓   |
| Sealed frame with holes for draining liquids and drip tray function                 | ✓            | ✓  | ✓  | ✓   | ✓   |
| Removable high-capacity fuel tank   | ✓            | ✓  | ✓  | ✓   |     |
| Internal separation panels in fuel tank (to prevent fuel movement during transport) | ✓            | ✓  | ✓  | ✓   | ✓   |
| Hatch for fuel tank cleaning  | ✓            | ✓  | ✓  | ✓   | ✓   |
| 6-way valve with quick-release fuel connector                                       |              | ✓  | ✓  | ✓   | ✓   |
| Water separator fuel filter   |              | ✓  | ✓  | ✓   | ✓   |
| Forklift holes  | ✓            | ✓  | ✓  | ✓   | ✓   |
| Anit-shock protection for moving with a forklift                                    | ✓            | ✓  | ✓  | ✓   |     |
| Perforated sheet metal throughout the interior of the body                          |              | ✓  | ✓  | ✓   | ✓   |
| 120 mm rock-wool insulation   |              |    |    | ✓   |     |
| Soundproofed air inlets and outlets and vents                                       |              |    |    | ✓   |     |
| Oversized exhaust   |              |    |    | ✓   |     |
| Soundproofed sides and frame  |              |    |    | ✓   |     |
| LF or low-profile (400 mm) frame  | ✓            | ✓  | ✓  | ✓   |     |
| HF or high-profile (600 mm) frame   |              | ✓  | ✓  | ✓   |     |
| Access ladder for lifting hook (from 100 KVA)                                       |              | ✓  | ✓  | ✓   |     |
| Balanced lifting hook   | ✓            | ✓  | ✓  | ✓   |     |
| Exhaust with rain cover + thermal shield  | ✓            | ✓  | ✓  | ✓   | ✓   |
| Fully sealed machine  |              |    |    | ✓   |     |
| Dual external fuel intake   |              | ✓  | ✓  | ✓   | ✓   |
| Lockable fuel cap   |              | ✓  | ✓  | ✓   | ✓   |
| External emergency stop   | ✓            | ✓  | ✓  | ✓   | ✓   |
| Oil drainage kit  | ✓            | ✓  | ✓  | ✓   | ✓   |
| Tarred/waterproofed lower section + soundproofing                                   |              |    |    |     | ✓   |
| Checker plate on floor  |              |    |    |     | ✓   |
| Electric fan in engine compartment  |              |    |    |     | ✓   |
| Separate advanced cooling compartment and access to cooling system                  |              |    |    |     | ✓   |
| Exterior lights   |              |    |    |     | ✓   |
| Quick change of control panels to 2 working heights or double control panel         |              |    |    |     | ✓   |
| Internal panel lighting   |              |    |    |     | ✓   |
| Dust and sand filters on air intake   |              |    |    |     | ✓   |
| Sensor-monitored fluid collection register  |              |    |    |     | ✓   |
| Protections for hot components with special lining for pipes                        |              |    |    |     | ✓   |
| Monoblock quick-release rails for large-scale maintenance                           |              |    |    |     | ✓   |
| Advanced oil drainage kit (rotary pump)   |              |    |    |     | ✓   |
| Container leveller using spirit level   |              |    |    |     | ✓   |
| Emergency exit panic buttons  |              |    |    |     | ✓   |

PURE INNOVATION ENERGY

## OPTIONAL EQUIPMENT

In addition to superior equipment as standard, the entire AEM Rental Range has the following options. Our technical department will advise you on the equipment that best suits your needs.

|  |
|--|
| Customer's choice of control centre model  |
| Tropicalised alternator  |
| Permanent Magnet Alternator (PMG)  |
| Alternator anti-condensation resistance  |
| Viscofan: Variable speed fan (Exclusive for Volvo and John Deere engines)                        |
| Analogue water temperature gauge   |
| Analogue battery charging gauge  |
| Analogue oil pressure gauge  |
| PowerLock sockets  |
| RS-232/RS-485 communication interface  |
| Additional input module  |
| Communication and remote-control module: GPRS, Ethernet, Internet, etc. (Fully Connected Inside) |
| Satellite tracking system (Exclusive for John Deere engines)                                     |
| Automatic fuel transfer kit (pump + solenoid shut-off valve + quick connectors)                  |
| Urea transfer kit  |
| Communications panel for synchronisation operations  |
| Cyclonic air filter  |
| Automatic oil replenishment system   |
| Colour and other special paint finishes  |
| FDS Technology or Fast Dual Frequency Swapping   |
| Analogue instrumentation   |
| Dual internal fuel intake  |
| Exterior lighting  |
| Internal lighting  |
| Engine water heater  |
| Engine oil heater  |
| Oil microfiltration  |
| Centrifugal oil filters  |
| Construction site trailer  |
| Approved trailer   |
| Earth rod  |
| Cooling/heating of electrical panels   |
| Fusion external redundant shutdown system  |
| Electronic engine regulation   |
| Full body made of Magnelis sheet metal   |

FOR OTHER CUSTOM OPTIONS, REQUIREMENTS OR EQUIPMENT NEEDS, PLEASE CONTACT US.

## STAGE V: THE MOST SUSTAINABLE RANGES ON THE MARKET

Stage 5 is the most comprehensive, efficient, innovative, well-equipped and environmentally friendly range. All our Rental sets comply with Stage V gas emission regulations for the rental sector. Reliable, resilient, versatile, high-performance. The most sustainable machines on the market.

▶ **HIGHER PERFORMANCE**

For increases in demand.

▶ **LOWER CONSUMPTION**

With variable cooling technologies.

▶ **+ECO FRIENDLY**

Stage V + RoHS compliant.

▶ **HVO FOSSIL-FREE FUEL**

Up to 90% lower emissions.

▶ **+SUPERSILENCE® 4.0**

Technology tailored to the Rental ranges.

▶ **EASY OPERATION**

Our technical department is at your service.

▶ **MULTISECTORAL**

Perfect for the most demanding applications.

▶ **GREATER VERSATILITY**

Hundreds of equipment options.

## WHAT MAKES US DIFFERENT?

### ▶ WE MANUFACTURE MACHINES THAT VERGE ON PERFECTION

We know that perfection does not exist — but we strive for it in every project. Our generator sets are robust, versatile and reliable. Thanks to the use of top-brand materials and components, the implementation of the most innovative technologies on the market and the application of internal quality systems and ISO standard systems on our production lines, our team of engineers and specialised technicians are able to manufacture a product with practically ZERO FAULTS.

### ▶ WE CHECK EVERYTHING DOWN TO THE LAST SCREW

All our generator sets undergo exhaustive checks throughout the entire design, manufacturing, execution and completion process. We conduct tests and continuous battery testing to ensure that you receive your machine ready to work in perfect condition immediately after installation.



## WHAT MAKES US DIFFERENT?

### ► TAILORING SOLUTIONS SPECIALISTS

Every project requires specific, custom solutions that are adapted to suit each challenge and each situation. Our engineers who, in collaboration with our sales department, study and design power generation systems based on customised generator sets, enabling us to satisfy any specification requirements and deliver functional solutions for your project.

In addition to supplying the most sustainable standardised models on the market and equipment for sectors such as defence, energy generation, telecommunications, construction, etc., we are able to adapt and customise every aspect of each machine, from colour to measurements, and from the implementation of the most complex systems to the most cutting-edge solutions. All this with our trademark speed and in the knowledge that we are the most effective when it comes to designing and manufacturing customised solutions.



## WHAT MAKES US DIFFERENT?



### ▶ **ALWAYS CONNECTED**

Our fully connected inside technology allows you to stay connected to your machines anytime, anywhere. This technology allows you to monitor and control the operation of your machine: alarms, fuel, remote control, etc. via the Internet, Wi-Fi, Ethernet, RS485, RS232, etc.

### ▶ **WE HAVE EVERYTHING UNDER CONTROL**

Our highly qualified, experienced, dedicated and friendly team works tirelessly every day to manufacture our products under the strictest quality processes – continually improving both our products and processes. Our plants are equipped with modern systems and state-of-the-art machinery. Our own Comprehensive Control System (SCI) also delivers vertical solutions, real-time monitoring and full process supervision. It offers the flexibility and versatility needed to meet your requirements and reduce delivery times as much as possible. This is what makes us leaders in efficient, custom manufacturing.

## WHAT MAKES US DIFFERENT?

### ▶ WE ALWAYS RESPOND

All our generator sets come with a standard warranty against manufacturing defects, valid for 1 year or 2,000 operating hours, whichever comes first (please contact us for the full warranty terms and conditions). We also offer a personalised warranty extension tailored to your machine. We analyse your project to offer you the best terms and conditions.

### ▶ WE COMPLY WITH EVERYTHING

All our product ranges are manufactured in compliance with current regulations and quality systems:

- ISO 9001.
- CE marking.
- Regulation (EU) 2023/1230 of the European Parliament and of the Council on machinery.
- Directive 2014/30/EU of the European Parliament and of the Council on the harmonisation of the laws of Member States relating to electromagnetic compatibility.
- UNE-EN-ISO 14121-1:2007 standard: "Safety of machinery. Risk assessment. Part 1: Principles."
- Regulation (EU) 2016/1628 of the European Parliament and of the Council on emission limits for gases and particulates from engines to be installed in non-road mobile machinery.
- Directive 2000/14/EC of the European Parliament and of the Council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

The power ratings are for environmental conditions of: 100kPa barometric pressure, 25°C and 30% relative humidity, defined in accordance with ISO 8528 and ISO 3046.

### ▶ ONE-ON-ONE COMMUNICATION

At AEM, you will find a trusted partner with straightforward, direct communication that sets us apart from other manufacturers. Each project has a personal advisor who guides you in choosing your equipment, adapting to your requirements and customisation options. All this with a single goal in mind: your complete satisfaction.

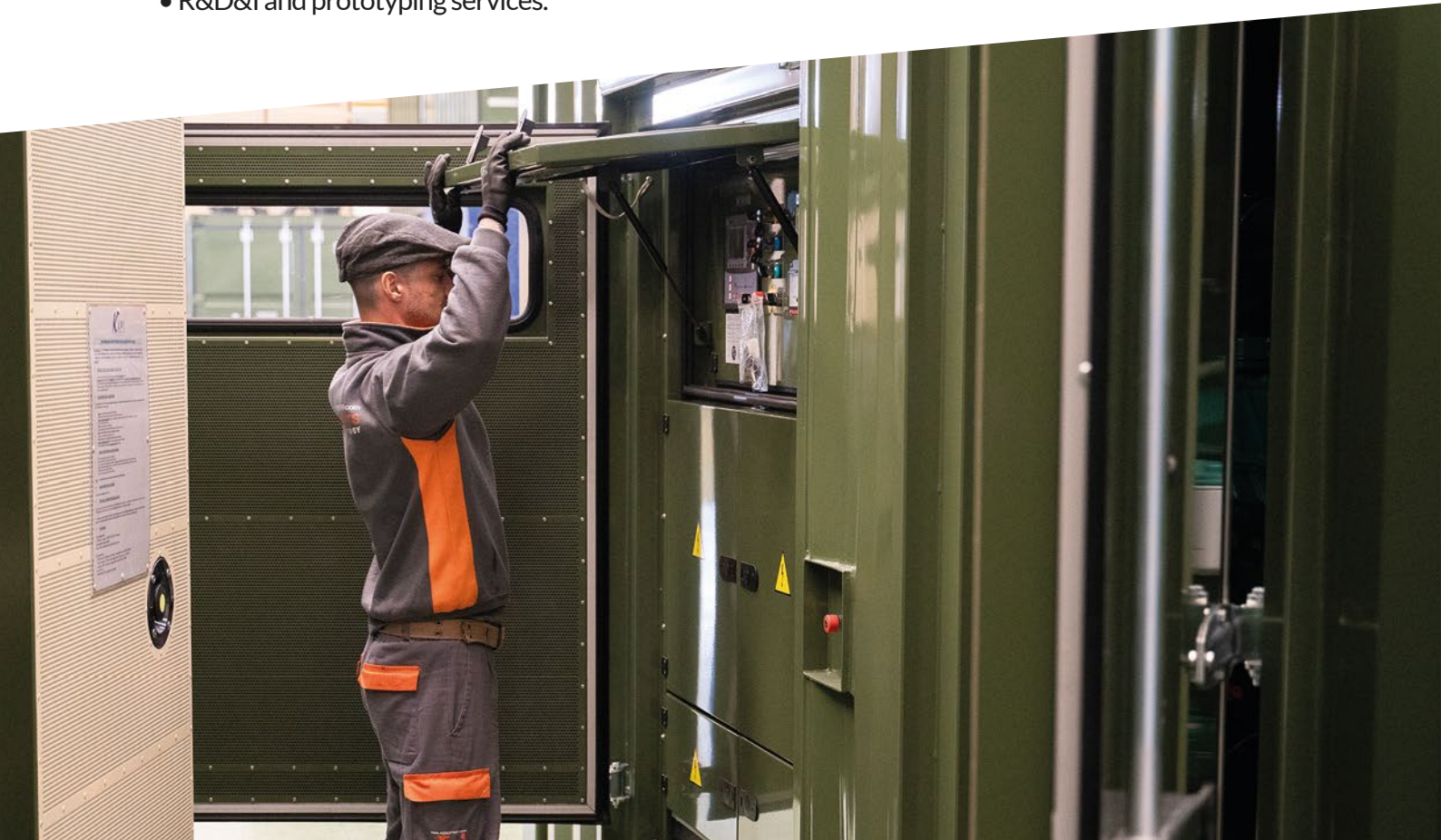


## WHAT MAKES US DIFFERENT?

### ▶ ALWAYS AT YOUR SERVICE

We don't just manufacture energy solutions; we also offer a wide range of services tailored to your needs, providing a quick and effective response to any eventuality that may arise. Our services include:

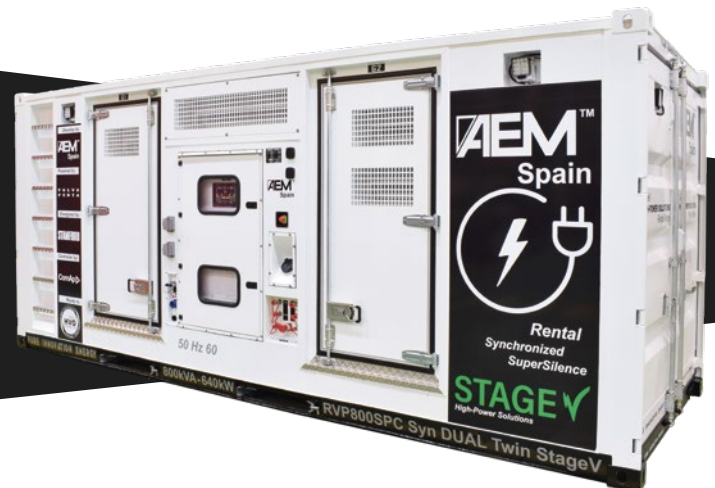
- Technical and commercial consultancy.
- Pre- and post-sales support.
- Technical Assistance Service (TAS), both by phone and on site.
- Maintenance.
- Engineering services.
- Spare parts, replacements and consumables.
- Training for both customers and distributors.
- Manufacture of custom electrical panels and generator sets.
- Special tests and trials.
- R&D&I and prototyping services.



## LEARN MORE ABOUT THE CONTAINER RENTAL RANGE

For power ratings up to 1000 kVA, this range is designed and manufactured to withstand the most extreme working conditions for years. All Rental Container systems are designed and built to order in standard 20 or 40-foot shipping container sizes (CSC certified), which greatly facilitates transport by road and sea. This range offers ultra-durable solutions for the most demanding environments.

**DESIGNED  
TO LAST**



### Main characteristics:

- **Expandable and versatile.** Machines designed to work in collaboration with other generator sets, ensuring very high energy availability in the event of power failures: standardised high-power Stage V solutions in twin format from 400 to 1000 kVA.
- **Easy to transport and dismantle.** Standardised lifting points make handling easy. Its modular rail system maximises the speed of dismantling and maintenance.
- **Ultra-quiet.** Its maximum soundproofing system allows the container to be installed in areas and environments that are sensitive to noise pollution.
- **Versatile connection.** Thanks to its full range of electrical and fuel connections your machine will always be ready for any installation.
- **Cutting-edge technologies.** Software at the forefront with the latest industry applications of the generator sector.

The information included in this document is only illustrative and may be updated without prior notice in order to improve our quality and service. Therefore, it does not imply any contractual relationship. The logos, trademarks and data may be subject to copyright.

## AND DISCOVER THE SUPERSILENCE® RENTAL RANGE

In addition to featuring the most advanced standard equipment on the market, all models in our Rental Range are compatible with our SuperSilence® Rental Range. This is designed specifically for rental companies and applications that require maximum performance and low noise levels (around 60dB: urban environments, hotels, hospitals, etc.). This range is so quiet that you will find yourself lowering your voice instead of raising it.

With geometry specially designed to absorb sound, this range has a special coating that ensures up to 45% less noise pollution, making them the quietest generator sets ever. All this while retaining all the key features and standard equipment that define our Rental Range.



**THE GENERATOR SETS  
WITH THE LOWEST  
NOISE LEVELS EVER**

### Main characteristics:

- **Superior soundproofing.** Bodywork lined with a 120 mm thick layer of rock wool and covered with perforated sheet metal, significantly reducing noise while improving structural integrity.
- **Improved bench design.** Both the bench and the air intakes are soundproofed, completing a fully enclosed structure that ensures maximum soundproofing.
- **Larger fuel tank.** Extended time between refuelling, a key feature of the Rental Range that has been further enhanced in the SuperSilence® evolution, and an essential requirement for rental companies.
- **Oversized exhaust.** With superior insulation and an innovative design, the oversized exhaust system dramatically reduces noise generation.
- **Variable fan speed.** This helps regulate its speed based on temperature and, with it, the noise generated.



# Spain

## Data Sheet



C\ Venezuela, Parcela 10-11,  
Polígono Industrial Oeste,  
30820, Alcantarilla, Murcia, Spain



[aemspain.com](http://aemspain.com)



+34 968 89 22 32



[aem@aemspain.com](mailto:aem@aemspain.com)

