

AEM™ RDW100SP/S5 Data Sheet

Certified company:



100 KVA
1500/1800 RPM
400/230 - 480/277 V.
50/60 HZ



ROBUST &
RELIABLE



360°
SERVICE



PREMIUM
EQUIPMENT



TAILORED
MANUFACTURING



FRIENDLY
USE

THE RELIABLE SOLUTION FOR RENTING MACHINERY AREA

PURE INNOVATION ENERGY

Rental Range Mod. RDW100SP/S5

SP Soundproofed Series

Engine
Deutz TCD4.1L4

Alternators Available
Mecc Alte - ECO34-2S/4
Stamford - UCI274C
Leroy Somer - TAL044 D



Power

	PRP	LTP
Power in KVA	100	110
Power in KW	80	88

General Specifications

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

Legend

- **PRP (Prime Power):** Maximum power supplied by the generating set for continuous periods of time and with variable loads.
- **LTP (Limited Time running Power):** Maximum power supplied by the generator 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.

Emissions certificate

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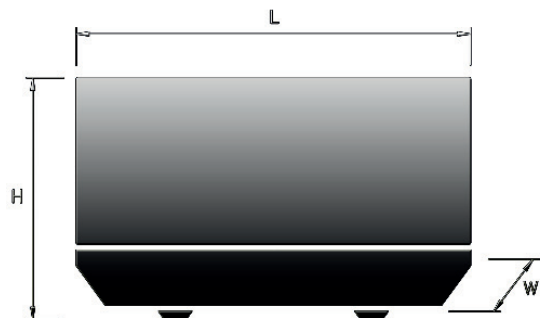
Consumption

	litres/hour
25%	
50%	
75%	
100%	17.9

Measurements and weight

	Premium	SuperSilence
Length (L) [mm]	3140	3340
Width (W) [mm]	1200	1370
Height (H) [mm]	2005	1950
Volume [m³]	7,5	8,9
Weight [KG.]	2870	3090
Fuel tank [L]*	620	720
Urea / AdBlue / DEF tank [L]	90	90
Autonomy 75% [h]	34,6	40,2

*LF (Low Frame Version) Aprox. 50% less fuel tank capacity.



Engine features

Brand - Model
Deutz - TCD4.1L4
Refrigeration
Water



The engine provides the necessary mechanical energy source to turn the alternator and generate electricity. The diesel engines are the most use in the AEM generators due to its reliability and its mechanical, ecological and economic benefits.

Engine data

	PRP	LTP
Power in KW	95	
Engine type	4-stroke	
Number of cylinders	4	
Displacement [L]	4,1	
Oil capacity [L]	11	
Oil consumption (100%) [% Comb.]	0,05	
Fuel consump. (100%) [GR x KW/H]		
Bore / Stroke [mm]	101 / 126	
Compression	18	
Aspiration	Turbo	
Start-up System	Electrical	
Type of regulation	Electronic	
Starter [KW]	4	
Battery [Ah]	120	

Remarks: The powers of diesel engines for stationary applications make reference to the following environmental conditions according to ISO 3046/1:

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

Additional information will be included in the Engine Manual supplied with the AEM generating set. For further information please do not hesitate to contact us without any obligation.

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Flow - Installation

Refrigeration airflow [m ³ /h]	9720
Combustion air volume [m ³ /h]	370
Exhaust gas flow [m ³ /h]	950
Exhaust gas temperature [°C]	540

Synchronized/Parallel Panels (IntelligentNt/InteliMains o DSE8610)

- These control panels are able to synchronize one or several machines among themselves or with an existing grid to work together and to provide energy in unison.
- It is installed in allocations where the business continuity is essential like: Hospitals, refrigeration facilities, power plants, support to the mains, ...
- The control can be built in the machine or in an independent cabinet or can be designed in a tailored solution for the project.
- Switchboards included are able to monitor: Voltages, frequencies, intensities, active-reactive-apparent powers, power factor, fuel level, oil pressure, engine temperature, battery voltage, hour-counter... The generator includes motorized circuit breakers.
- Main engine integrated protections: Low battery level, over and low speed, fuel reserve, low oil pressure, high engine temperature, start-up and stop failure.
- Main alternator integrated protections: Over and low voltage, over and low frequency, direction of rotation, power imbalance between phases.
- Other protections: Differential protection.
- Tailored solutions to meet the requirements of each project (Wide possibilities).

*IntelligentNt/ InteliMains***Choose your preferred switchboard/controller**

AEM always works with high quality components of the best brands, which enable us to controllers as standard. Nevertheless, as a result of the customization possibilities offered by the Rental Range, you can select any other switchboard type that meets your needs or preferences.

Premium standard equipment

The AEM Rental Range has the most comprehensive equipment of the market. In addition, the whole range is compatible with the AEM SuperSilence option.

Scope of standard supply

- Engine gas collector CCV
- Automatic switchboard Comap AMF25 or Deep Sea DSE6020
- 4 Phase circuit breaker
- Electronic differential
- Alternator AVR relocated in the control panel.
- Busbar/Terminal block.
- Connections for cable without terminal.
- Door safety micro-switch for disconnecting general circuit breaker when opening.
- Electrical cabinet with IP67 protection sockets.
- Electrical box protection for IP67 sockets.
- Battery disconnecter.
- Heat/Thermal-insulated exhaust pipes.
- Sealed frame with draining liquids screwed caps.
- Removable high capacity fuel tank.
- Compartmentalized/Subdivided fuel tank to avoid fuel movements in transport.
- Opening box for easy cleaning of the fuel tank.
- 6-way valve with external quick plugs of fuel.
- Water separator fuel filter.
- Forklift holes.
- Anti shock protection for manipulation with forklift.
- Perforated sheet covering the whole inner surface of the machine.

Extra equipment (Optional)

In addition to the standard scope, our skill to manufacture special solutions allows us to offer a wide range of customization options:

- Switchboard of your choice
- Tropicalized alternator (protection for hest environments)
- Permanent Magnet Alternator (PMG)
- Viscofan: Variable speed fan (Exclusive for Volvo and John Deere engines)
- Analog water temperature gauge.
- Powerlocks connectors.
- Analog oil pressure gauge
- RS232-485 communication interface
- Additional input module
- GPRS monitoring and remote control module
- Satellite tracking system (Exclusive for John Deere engines)
- Automatic fuel transfer pump + stop electrovalve
- Perforated sheet only in the inner side of the doors
- Cyclone air filters
- Automatic oil filling system
- Oversized exhaust pipe
- Customized colour and special paint treatments
- SUPERSILENCE premium soundproofing

For any other tailored options and requirements please contact us.



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