



RAYWIN

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RAYWIN

DATASHEET

G-DRIVE SOLUTION
AGRICULTURAL SOLUTION
SPRINKLER SOLUTION

RSAD292 DATASHEET

14 kW (19.0 hp) @ 3000 rpm constant speed

15kW (20.4 hp) @3600rpm variable speed

GENERAL ENGINE DATA

Model	RSAD292
Type	Vertical In-line, Air Cooled, Four Stroke
Combustion System	Direct Injection – DI
Cylinder No.	2
Bore x Stroke	92 mm x 75 mm
Displacement	0.997 litres
Compression Ratio	20.5 : 1
Induction System	Naturally Aspirated
Firing Order	1 - 2
Centering	125mm
Conical PTO dia	38mm
Emission Level	Stage V

CONSTANT SPEED PERFORMANCES @ 3000 rpm

Model	Raywin Engine Power			Genset Power			
	Prime Power (kWm)	Stand-By Power (kWm)	Assumed alternator Efficiency	Prime Power (kWe)	Prime Power (kVA)	Stand-by Power (kWe)	Stand-by Power (kVA)
RSAD292-2	14.0	15.5	0.8	11.2	12.4	14.0	15.5

VARIABLE SPEED PERFORMANCES @ 3600 rpm

Model	Rated Power (kW)	Rated Power (Hp)	Engine Speed (rpm)	Max Torque (Nm)	Max Torque (kgm)	Engine Speed (rpm)
RSAD292-1	15.0	20.4	3600	50	5.1	2250

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Additional Technical Data



RSAD292 NATURALLY ASPIRED ENGINE

ITEMS SPECIFICATIONS

Model	RSAD292-2/3	RSAD292-1
Combustion Chamber	Direct injection - DI	
Valve NO. per cylinder	2	
Lubricating system	Splash and pressure	
Start method	Electrical start	
Speed governor type	Mechanical	
Fuel System	Unit Injection Pump	
Oil capacity (litres)	1.8 ~ 2.8	
Direction of rotation	Anticlockwise (facing the flywheel)	
Min. Fuel consumption (g/kWh)	≤ 260	≤ 270
Oil Consumption (%)	≤ 1 of fuel consumption @ full load	
Fuel Type	In accordance with EN590	
Oil Type	Summer: 15W 40 Winter: 5W 30	
Engine Oil Pressure (bar)	1 @ 900rpm	
Valve clearance (inlet/exhaust)	0.1mm @ 10 – 30°C	
Max permissible perm. Inclination (°)	Exhaust → 30 Low – 17 High	
Max permissible perm. Inclination (°)	Flywheel → 25 Low – 25 High	
Starter Power (kW)	1.8	
Alternator	12V 40 A	
System Voltage (V)	12	
Battery type	≥ 55 Ah – 12V 36Ah	
Air Filter	Oil-bath type	

(°) Exceeding these limits causes engine breakdown

EASY SERVICE FEATURES

Maintenance Work required	Maintenance Interval
Check Oil Level Check area around combustion air input Check cooling air system Check that the oil level in the lower part of the oil bath air cleaner is correct and that the oil is not contaminated	Every 8 - 15 operating hours or before daily starting
Maintenance of the oil bath air filter Replace engine oil and oil filter Check and adjust valve clearance Clean cooling air system Examine screw connections	Every 250 Operating Hours
Replace fuel filter	Every 500 Operating Hours



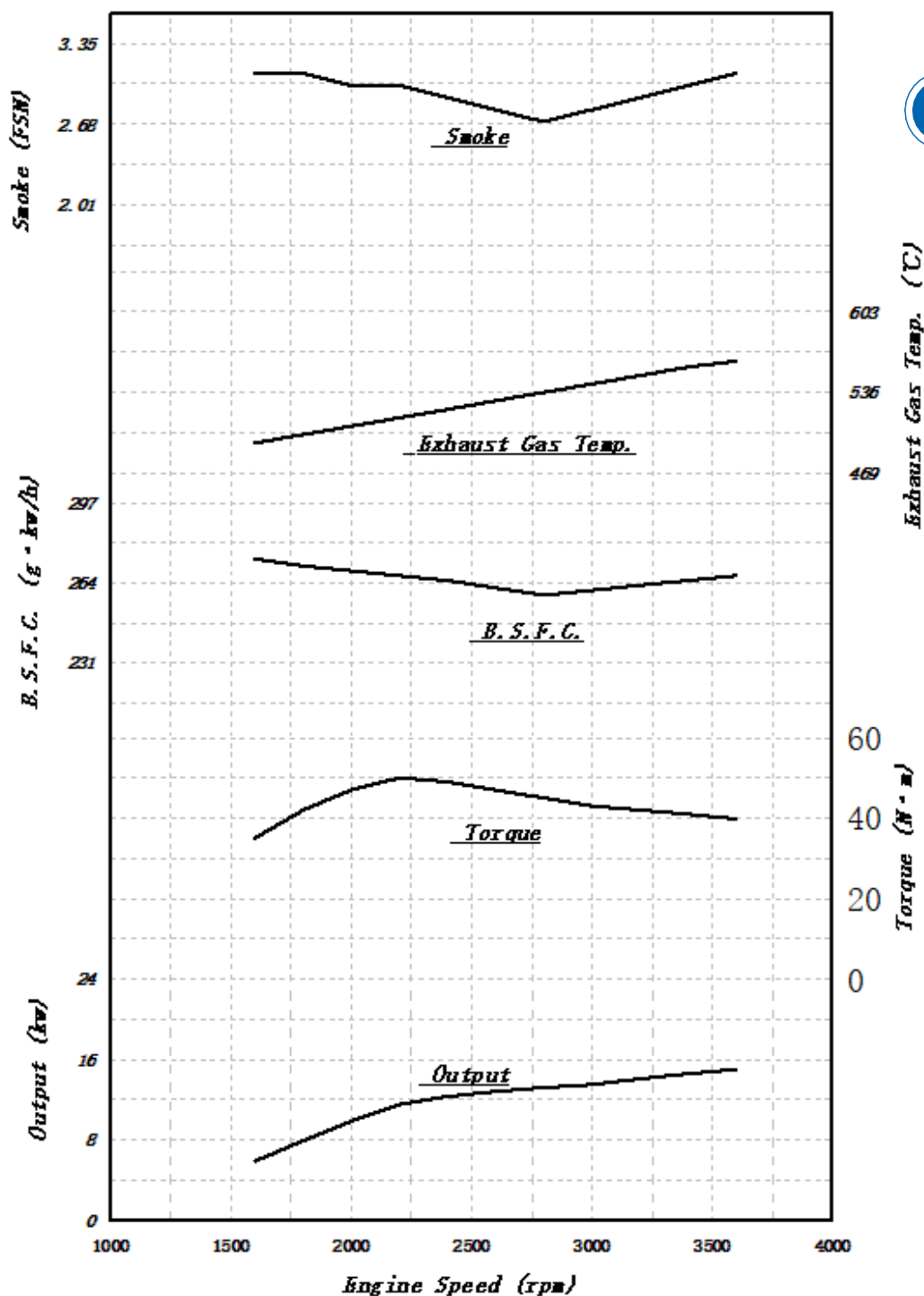
TORINO (ITALY)
Via Marie Curie, 22
10073 CIRIÈ
Tel. +39.011.9214015

VENEZIA (ITALY)
Via dell'Azoto, 6/F
30175 MARGHERA
Tel. +39.041.5315541

LYON (FRANCE)
Rue M. Merieux-Parc Avenir 2
69530 BRIGNAIS 313A
Tel. +33(0)437.259596-7

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Engine Performances - Power Curves



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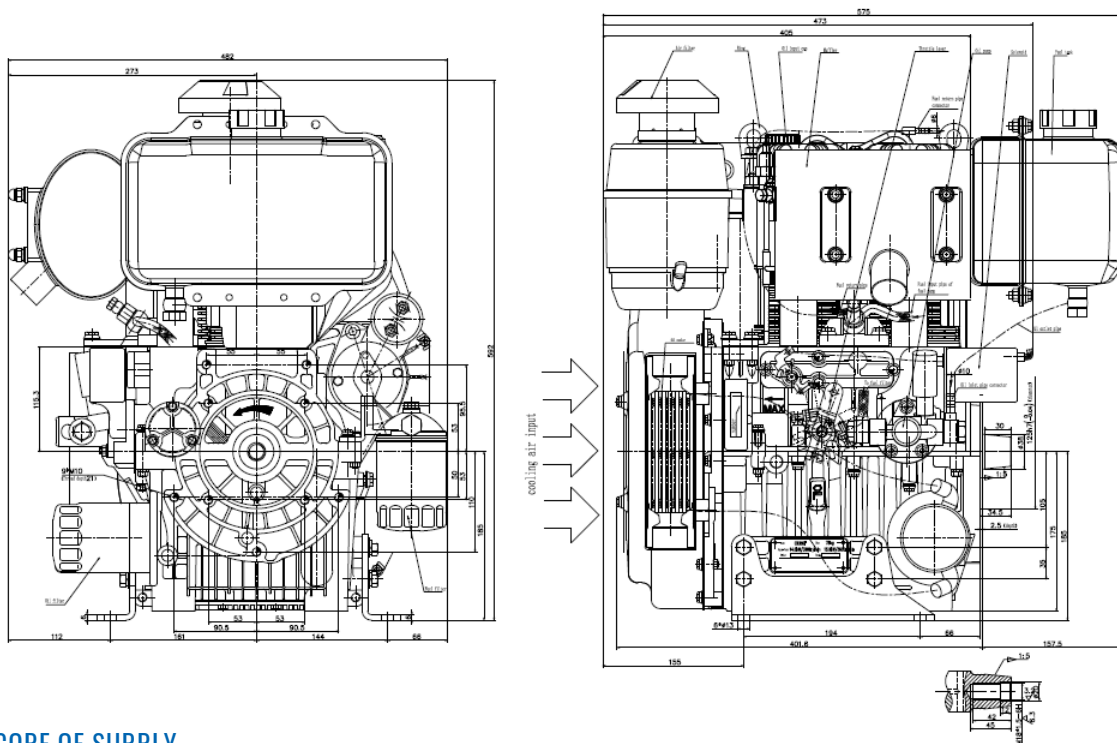
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Engine dimensions, Weight and Scope of Supply

ENGINE DIMENSIONS AND WEIGHT

Size (LxWxH) (mm)	420x482x592 (not including fuel tank) 575x482x592 (including fuel tank)
Approx. Weight (kg) (incl. Fuel tank, air cleaner, exhaust silencer and electric starter)	83



STANDARD SCOPE OF SUPPLY

RSAD292-1 (AGRICULTURAL): Variable speed at 3600 rpm, 12V electrical system, Electrical starter, Fuel filter, Oil Bath air cleaner, Muffler with guard, Diesel fuel tank, Automatic deaeration on injection pump, 38mm dia Conical PTO and 125mm centering, Automatic fuel control during start, Rigid engine supports, ETR valve (Excited to Run), LPO (Low Oil Pressure) sensor, Magnetic Engine Pick-up

RSAD292-2 (POWER GENERATION): Fixed speed at 3000 rpm, 12V electrical system, Electrical starter, Fuel filter, Oil Bath air cleaner, Muffler with guard, Diesel fuel tank, Automatic deaeration on injection pump, 38mm dia Conical PTO and 125mm centering, Automatic fuel control during start, Rigid engine supports, ETR valve (Excited to Run), LPO (Low Oil Pressure) sensor, Magnetic Engine Pick-up

RSAD292-3 (SPRINKLER): Fixed speed at 3000 rpm, 12V electrical system, Electrical starter, Fuel filter, Oil Bath air cleaner, Muffler with guard, Diesel fuel tank, Automatic deaeration on injection pump, 38mm dia Conical PTO and 125mm centering, Automatic fuel control during start, Rigid engine supports, ETS valve (Excited to Stop) compliant with UNI-EN 12845, LPO (Low Oil Pressure) sensor, OT (Oil Temperature) sensor, Magnetic Engine Pick-up

Note: Informations, modifications and details contained in this page may be updated without any notice (RW/RSAD292/EN/Rev.0).

RAYWIN RAYWIN POWERTRAIN TECHNOLOGY CO., LTD.
 ADD: No.99.Jiujiang Rd, Shuanfu District, Jiangjin District, Chongqing, 402247, China
 Tel: +86-(0)23-85553153 <http://www.raywinpower.com> e-mail: info@raywin.cc



TORINO (ITALY)
 Via Marie Curie, 22
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