

Output Ratings

Generating Set Model	S320P1	S350E1
-	-	-
440/254V, 60Hz	320.0 kVA 256.0 kW	350.0 kVA 280.0 kW

Ratings at 0.8 power factor.

Ratings Definitions

Prime Power - Model S320P1

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Standby Power - Model S350E1

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Technical Data

Engine Make & Model:	Scania DC9 65A 10-95	
Alternator Model:	GTA311 AIVS	
No. of Cylinders/Alignment:	5 / In Line	
Displacement: litres (cu.in)	8.9 (543.1)	
Bore/Stroke: mm (in)	127.0 (5.0)/140.0 (5.5)	
Compression Ratio:	18.1	
Induction:	Turbocharged Air To Air Charge Cooled	
Frequency:	50 Hz	60 Hz
Engine Speed:	-	1800 RPM
Gross Engine Power: kW (hp)	-	315.0 (422.0)
BMEP: kPa (psi)	-	2368.0 (343.5)
Piston Speed: m/sec (ft/sec)	-	8.4 (27.6)
Fuel Tank Capacity: litres (US gal)	-	250 (66.0)
Fuel Consump, l/hr (USg/hr)		
S320P1	-	67.7 (17.9)
Fuel Consump, l/hr (USg/hr)		
S350E1	-	70.8 (18.7)
Heat Rejected to Exhaust System: kW (Btu/min)	-	227 (12909)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	-	120.0 (6824)
Heat Radiation to Room: kW (Btu/min)	-	31.0 (1763)
Exhaust Gas Temperature: °C (°F)	-	539 (1002)
Radiator Cooling Air Flow: m³/min (cfm)		
Cooling system designed to operate in ambient conditions up to 50°C (122°F)*	-	450.0 (15892)
Combustion Air Flow: m³/min (cfm)	-	21.1 (745)
Exhaust Gas Flow: m³/min (cfm)	-	55.0 (1942)

* Contact your local FG Wilson dealer for power ratings at specific site conditions.

Dimensions and Weights

Length: mm (in)	Width: mm (in)	Height: mm (in)	Dry: kg (lb)	Wet: kg (lb)
3375 (132.9)	1120 (44.1)	1935 (76.2)	2787 (6144)	2840 (6261)

Dry = With Lube Oil Wet = With Lube Oil and coolant

Ratings in accordance with ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22. Generating set pictured may include optional accessories.



www.3tech.net



S320P1 / S350E1



3Tech Corporate Limited
 Unit 904, 9/F., Fu Hang Industrial Building,
 1 Hok Yuen Street East, Hung Hom,
 Kowloon, Hong Kong.
 Tel: +852-2766 9787 Fax: +852-2766 9774
 Email:sales@3tech.net

Headquarters: Hong Kong China: Beijing, Dongguan, Shenzhen, Xiamen
 Overseas: Nigeria, D.R.Congo, Ghana, Kenya, Tanzania, Pakistan, USA, Canada, France



ISO 9001:2008
 Certificate No.194845

