



Application and Engineering Data

Basic Technical Data		Lubrication System	
Manufacturer	General Motors	Type	Full Pressure
Model	Vortec 5.7 L	Oil pan capacity	25 qt (24 L)
Number of cylinders	8	Oil pan capacity with filter	3.75 qt (3.5 L)
Cylinder arrangement	Vertical in-line	Oil filter: qty and type	N/A
Cycle	4		
Induction system	Turbocharged Air Cooled		
		Electrical System	
Compression ratio	9.4:1	Ignition system	Individual Coil, Near Plug Ignition
Bore	4.00 in (101.6 mm)	Battery charging alternator:	
Stroke	3.48 in (88.4 mm)	Ground	negative
Cubic capacity	350 cu in (5.7 L)	Volts	12
Piston speed	870 ft/min (265 m/min)	Ampere rating	70
		Starter motor rated voltage	12
Main bearings: qty and type	5, M400 Copper Lead	Battery, recommended cold cranking amps (CCA):	
Governor type	Electronic	Qty rating for -18 °C (0 °F)	1,630
Rated rpm	1800	Battery voltage	12
Max power at rated rpm	133 hp (99 kW)		
Engine power at Standby rating	N/A	Operation Requirements	
Frequency regulation, no-load to full-load	Isochronous	Radiator-cooled cooling air, m ³ /min (scfm) ‡	5500 scfm (156 m ³ /min)
		Combustion air	237 cfm (6.8 m ³ /min)
Frequency regulation, steady state	± 0.5%	Heat rejected to ambient air: Engine	2700 Btu/min (47 kW)
		Alternator	825 Btu/min (14.5 kW)
Frequency	Fixed		
		Fuel System	
Air cleaner type	Dry	Fuel Type	Natural Gas
		Fuel Consumption	
		Natural Gas	
		100% Load	1185 cfh (33.6 m ³ /min)
		75% Load	981 cfh (27.8 m ³ /min)
		50% Load	777 cfh (22.0 m ³ /min)
		25% Load	573 cfh (16.2 m ³ /min)
Exhaust System			
Exhaust manifold type	Dry		
Exhaust flow at rated kW	670 cfm (18.9 m ³ /min)		
Exhaust temperature at rated kW	1427 °F (775 °C)		
Maximum allowable back pressure	3.0 in (10.2 kPa)		
Exhaust outlet size at engine hookup	N/A		
Cooling System			
Ambient temperature	122 °F (50 °C)		
Engine jacket water capacity	1.8 gal (6.8 L)		
Radiator system capacity, including engine	6.0 gal (22.5 L)		
Engine jacket water flow	38 gpm (144 Lpm)		
Heat rejected to cooling water at rated	6300 Btu/min		
Max restriction of cooling air, intake and discharge side of radiator	0.5 H ₂ O (0.125 kPa)		

