

Stadco Cellpac™ Diesel Powered Generators vs. Hydraulic Generators

Manufacturer		Stadco Cellpac™			A.M.P.S.			Harrison			Onan		
Generator Model		CP6	CP10	CP20	EO661	E1061	E2061	6.0 MAS - 16R/4A	10.0 MAS - 16R/4A	20.0 MPC - 16D/3J	CMHG 6000	CMHG 10000	None Available
Rating (Watts)		6000	10000	20000	6000	10000	20000	6000	10000	20000	6000	10000	20000
Required HP Input		10.2	17.1	32.5	not avail.	not avail.	not avail.	12	20	40	18.3	28	
Typical drive engine HP		12.2	17.7	32.5	300 - 500 HP			300 - 500 HP			300 - 500 HP		
Generator Drivetrain efficiency @ 80°F (typical)		100%			52 - 75%			52 - 75%			52 - 75%		
Unit size Including std. Hyd. oil tank	Length (In)	28.8	32.4	38.5	38.0	38.0	54.5	30.0	30.0	35.0	32.3	42.3	
	Width (In)	18.0	19.5	19.5	14.7	15.7	19.7	22.5	22.5	23.0	15.9	15.9	
	Height (In)	25.1	26.8	28.3	13.4	13.1	21.0	18.5	18.5	19.0	13.8	13.8	
Hydraulic Reservoir size (In)		None required	None required	None required	14.7" x 13.0" x 7.0" 3 gal			22.5" x 18.5" x 6.0" 7.8 gal			12.5" x 12.0" x 10.3" 3 gal		
Typical System Oil capacity		0.9 gal.	1.1 gal.	2.5 gal	Est. 5 gal	Est. 5 gal	Est. 5 gal	Est. 9 gal	Est. 9 gal	Est. 9 gal	5 gal	5 gal	
Operating Clearance Req'd.		1/8-1/4" Approx.			Check Operators Manual			Check Operators Manual			Check Operators Manual		
Factory Completed Package		Yes			No			No			No		
Generator RPM		1800	1800	1800	3600	3600	3600	3600	3600	1800	3600	3600	
Generator Type		4-pole, brushless			2 pole, brushless			2- pole, brushless		4-pole	2-pole brush type		
Generator Duty Cycle		Heavy			Light			Light		Heavy	Light		
Std. Battery Charger V / Amps		12 / 40	12 / 50	12 / 55	None			None			None		
Money back performance guarantee		Yes			Check with manufacturer.			Check with manufacturer.			Check with manufacturer.		

Typical **FALSE** claims made by some hydraulic generator manufacturers:

1. Runs much quieter than a diesel generator.

Only if you don't start that 300-500HP **diesel** engine that is **required** to drive your hydraulic generator on a fire truck.

2. About 65% smaller

Stadco Cellpac generators when compared to the above manufacturers in most cases are comparable or more compact when total package is considered (generator unit, hydraulic reservoir, hydraulic pump, service & installation clearances). Stadco Cellpac is a compact factory built **package** specifically designed with a patented cooling system for compartment operation.

3. Cleaner, No carbon exhaust, No fuel, No Pollution.

We would like to see this 300HP **diesel** engine that does not require fuel, has no carbon exhaust & NO pollution. Every hydraulic generator still needs a fuel fed prime mover to create power. Hydraulic generators use the power from the vehicle drive engine **indirectly** with a great deal of efficiency loss (typically 30% - 52%). This inefficiency actually creates more pollution than a Cellpac generator. (see above)

4. Typically 50% lighter.

This claim obviously is not taking into consideration the complete package required for a hydraulic generator unit. Most manufacturers boast the weight of the "generator unit" but fail to add in the weight of other required equipment such as transmission PTO drive adapter, hydraulic pumps ranging 40 - 127 lbs., hydraulic oil reservoir (typically 3-8 gallons, when filled 35- 80 lbs) & hydraulic hoses.

Information contained in this comparison was obtained and compiled from literature, installation manuals & advertisements published by the respective hydraulic generator manufacturers.