

STADCO CELLPAC™ GENERATOR SYSTEM



6-25KW

SALES SPECIFICATIONS S84 1800 RPM DIESEL GENSETS

FOR COMPARTMENT APPLICATIONS
ON DIESEL MOTOR VEHICLES

GENSET RATINGS		GENSET MODEL					
		CP6	CP7	CP10	CP15	CP20	CP25
Sales Drawing No.		12262	12645	12391	12644	12643	12642
4-Leads, 1-Phase, 1.0 PF Unit Output Rating	Intermittent	6.0 KW	7.25 KW	10.0 KW	15.0 KW	20.0 KW	25.0 KW (3)
	Continuous	5.0 KW	6.0 KW	9.0 KW	13.5 KW	19.0 KW	22.0 KW (3)
Std. Unit Max. Rated Current: (1) Amps @ 240VAC, 1.0 PF.		25	30	41.5	62.5	83	104
A.C. Alternator Max. Capacity (2) 240V., 1-ph., 1.0PF Series/Parallel Connection	Amps @ 240V	25	35.4	45.8	68.8	93.8	114.6
	KW/KVA Intermittent	6	8.5	11	16.5	22.5	27.5
	% Efficiency	NA	78	78.5	82.5	79	85
Load Circuit Breaker Capacity (2-poles)		25A	32A	40A	63A	80A	100A

- (1) - **Unit Output Rating** refers to the rating of the engine/generator combination.
- (2) - **A.C. Alternator Max Capacity** refers to the manufacturers rating of the alternator.
- (3) - 3-Phase version available with same footprint.
 - Refer to price list for pricing & ordering information.

CELLPAC - SUPER COMPACT POWER



Complete
Packaged
Compartment
Generator
Systems
1800 RPM

GENSET DATA		GENSET MODEL					
		CP6	CP7	CP10	CP15	CP20	CP25
Engine Specifications							
Diesel Engine with basic components naturally aspirated	Make	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Deutz	Deutz
	Cylinders	3	3	3	4	3	3
	Liters / CID	0.95 / 58	0.95 / 58	1.32 / 81	1.75 / 107	2.19 / 133	2.19 / 133
	HP @ 1800 RPM SAE J1349	12.2	12.2	17.7	24.7	34.5	48.7
Battery Charging Alternator	Volts DC / Amps	12V / 40A	12V / 40A	12V / 50A	12V / 50A	12V / 55A	12V / 55A
Fuel Consumption	100% Load GPH	0.8	0.8	1.1	1.5	1.7	2.3
	50% Load GPH	0.4	0.4	0.6	0.8	0.9	1.2
Recommended Diesel Fuel		#2D Red	#2D Red	#2D Red	#2D Red	#2D Red	#2D Red
		#2D Clear	#2D Clear	#2D Clear	#2D Clear	#2D Clear	#2D Clear
Lube oil change Interval Max.		250 hrs.	250 hrs.	250 hrs.	250 hrs.	1000 hrs.	1000 hrs.
Typical Cold Starting Capability w/o preheat		NA	NA	NA	NA	-10°C (13°F)	-10°C (13°F)
Typical Cold Starting Capability w/ 10W-30 Lube Oil	12V Starting aid & uprated Battery.	-15°C (5°F)	-15°C (5°F)	-15°C (5°F)	-15°C (5°F)	-15°C (5°F)	-15°C (5°F)
Unit Specifications							
Recommended Battery Size 12V. (CCA)	Normal	350	350	550	550	600	600
	Uprated	450	450	700	700	750	750
Recommended 12V Battery type; BCI#		24F	24F	24F	24F	24F	24F
(3) Average Sound Level	dB(A) @ 1 Meters	78	78	80	82	89	NA
Unit Size Refer to Stadco Sales Drawings for more details	Length	28.8"	30.6"	32.4"	38.0"	39.4"	46.6"
	Width	18.0"	18.0"	19.5"	19.5"	19.5"	20.3"
	Height	25.1"	25.1"	26.7"	26.8"	28.3"	28.1"
Approx. Unit Weight (Lbs)		420	440	540	655	750	860

(3) Sound level is based on engine manufacturers specs, 4 directions averaged w/o fan.

Standard Equipment

STANDARD EQUIPMENT		GENSET MODEL					
		CP6	CP7	CP10	CP15	CP20	CP25
Engine - Diesel							
Cooling System Aluminum Heat Exchanger	Liquid	•	•	•	•		
	Lube Oil					•	•
Coolant Reservoir w/ visual monitoring		•	•	•	•	dipstick	dipstick
Air Cleaner, Dry Type, Canister		•	•	•	•	•	•
Oil & Fuel Filters		•	•	•	•	•	•
Cold Start Preheat System 12V. DC		•	•	•	•	option	option
Fuel Transfer Pump	Mechanical					•	•
	Electric 12V. (mtd.)	•	•	•	•		

STANDARD EQUIPMENT	GENSET MODEL					
	CP6	CP7	CP10	CP15	CP20	CP25
Engine - Diesel						
Guards: Fan & V-belt	•	•	•	•	•	•
Remote Muffler Kit w/ S.S. tubing	•	•	•	•	•	•
Oil Drain Hose Kit & Side Oil filler	•	•	•	•	•	•
12V. Run/Stop Solenoid	•	•	•	•	•	•
Governor - Mechanical for Gen-Duty	•	•	•	•	•	•
12V Starting System w/ Battery Charging Alt.	•	•	•	•	•	•
AC Generator						
Brushless Alternator, 1800 RPM, 4-pole, 4-Lead, 1-Phase (See Desc.)	•	•	•	•	•	•
Winding Insulation 40°C Ambient	Class F	•	•	•	•	•
	Class H					•
Voltage Regulation	Electronic		•	•	•	•
	Capacitor	•				
High Motor starting capacity	•	•	•	•	•	•
12VDC Automatic Logic Controlled Control System #1556 (Wall Mount)						
Toggle Switch Start & Stop	•	•	•	•	•	•
Engine Protection for: Oil press, Overheat, Overspeed, Overcrank, Starter Lockout	•	•	•	•	•	•
ALC Engine Controller & 12ft. Cord	•	•	•	•	•	•
Hourmeter, 12VDC C.B. & Fault Indicators	•	•	•	•	•	•
Remote Control Capable	•	•	•	•	•	•
AC Control System						
Main Load Circuit Breaker w/ load terminals	•	•	•	•	•	•
Miscellaneous						
Captive type Vibration Isolators	•	•	•	•	•	•
Routine Service points on service side	•	•	•	•	•	•
Placards & Nameplates	•	•	•	•	•	•
Operators/Parts/Installation Manuals	•	•	•	•	•	•
Finish: Silver Gray exterior enamel	•	•	•	•	•	•
Factory Load tested & QA inspection.	•	•	•	•	•	•
EPA Emmissions Compliance	•	•	•	•	•	•

STANDARD EQUIPMENT- CELLPAC GENERATORS

#1556, ALC Control/Protection system, wall enclosure for remote mounting.

Provides engine protection & LED fault indicators for: Low oil pressure, High engine temperature, Overcrank & Overspeed starter lockout. Also LED indicators for engine starting, engine running & engine preheating (some models).

System features an engine controller w/ autocrank that automatically preheats and cranks engine for a preset period of time. Control system allows for multiple remote stations for convenient in-cab or pump panel starting when generator is inaccessible. Includes: toggle power switch, toggle start switch, service hourmeter, 12VDC circuit breaker, 12VDC alternator light & 12 ft. control cord with weather-tight connectors. Factory wired & tested. 8X8X4 NEMA3R Enclosure w/ hinged cover. Fully wired shipped loose. (See Control System Flier S112)

INTENDED APPLICATIONS: Diesel motor vehicle compartments with free space beneath floor to facilitate hot air discharge.

STANDARDS: Gensets quoted herein meet the following standards:

- Electrical Instrumentation: UL listed. Wiring & electrical systems: NEMA Code
- NFPA 1901 (requires AC Meter Panel #1222) on CP10 and up.
- A.C. Alternator: NEMA MGI-22.
- Engine: EPA & CARB certification for applicable exhaust emissions. SAE J1349 rating.

SAFETY NOTICES:

To prevent possible accidents, which may result from the use of any generator set or system, it is important that correct procedures are followed. Installation, maintenance and operation procedures specified by STADCO and the engine manufacturer must be followed in conjunction with engineering and safety information specified. Grounding equipment, guards and other suitable safety equipment or procedures that may either be desirable or specified in safety codes should be provided to assure safe operation in the prevailing conditions.

THESE DEVICES MAY NOT BE INCLUDED WITH THE PRODUCT, AND ARE NOT THE RESPONSIBILITY OF STADCO. INSTALLER IS RESPONSIBLE FOR PROVIDING SAFETY ITEMS TO SATISFY PREVAILING SAFETY CODES.

DO NOT install STADCO Cellpac generator units into installations where personnel will be confined with the operating unit; unless a separate compartment is provided to cover the unit .

MITSUBISHI DIESEL ENGINES: All Mitsubishi engines offered are fresh new designs to meet all proposed exhaust emissions standards. These liquid cooled multi-cylinder engines are the smoothest and quietest diesel engines available. They are among the world's best mini-diesels. Mitsubishi diesels are well known for their reliability and fault free operation.

AC GENERATOR: Industrial quality 4-pole brushless alternator provides important benefits:

- a.)** Brushless = Eliminates brush wear & maintenance. **b.)** Low Radio Interference (RFI) factors.
- c.)** 4-pole design provides twice the amount of copper winding - Provides almost double the motor starting power when compared with 2-pole alternators.

The standard electronic automatic voltage regulator (except CP6) provides close voltage regulation at all engine speeds and loads, and with all types of loads; lights, heaters or motors.

AC/DC ELECTRICAL & COMPONENTS: All AC/DC components, including the standard main load circuit breaker are mounted into metal generator enclosure cabinet, isolated from vibration. AC load cables connect to load terminals of the circuit breaker.

EXHAUST SYSTEM: Exhaust manifold and tailpipe are insulated with heat insulation wrap. Exhaust tailpipe is factory installed with a bottom outlet, flanged, located inside the genset frame rail. An 8' section of stainless steel flexible exhaust tubing and the exhaust muffler are shipped loose with the unit.

SERVICE STATEMENT: Stadco stocks a comprehensive amount of routine maintenance and repair parts at our own facility. We provide same day shipment to anywhere in the USA if necessary.

GENERAL:

OPTIONAL EQUIPMENT: Choose accessories as required from Optional Accessories List on price list.

PERFORMANCE RATING:

- a. All Stadco generator sets are individually load tested and certified by Stadco to deliver advertised performance under climatic operating conditions specified by SAEJ1349 standards.
- b. **POWER RATING:** Conforms to SAEJ1349 climatic conditions of 80°F(27°C) ambient temp, 500ft. altitude, 50% relative humidity. Operation at higher temp and/or higher altitude may require derating of unit output. Refer to Stadco chart #S67.
- c. **NOTE: When sizing a generator for job application, all resistance loads such as lights and heaters are considered Continuous loads.**

SPEED DROOP: Typically 5% (3.0 Hz.) from no load to full load.

COOLING AIR SUPPLY: Observe air flow directions and intake cross-sections as shown on Stadco sales drawings and Operators manual.

WARRANTY STATEMENT: Limited money back warranty applies. Stadco Cellpac™ Generator Systems are covered by a limited warranty policy for a term of (24) consecutive months or (3000) hours of service, whichever occurs first. See Warranty Statement #D25.

Stadco reserves the right to change product specifications at any time without incurring obligation. These specifications supersede all previous publications.

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