

# STADCO **CELLPAC™** - APU GENERATOR SYSTEM



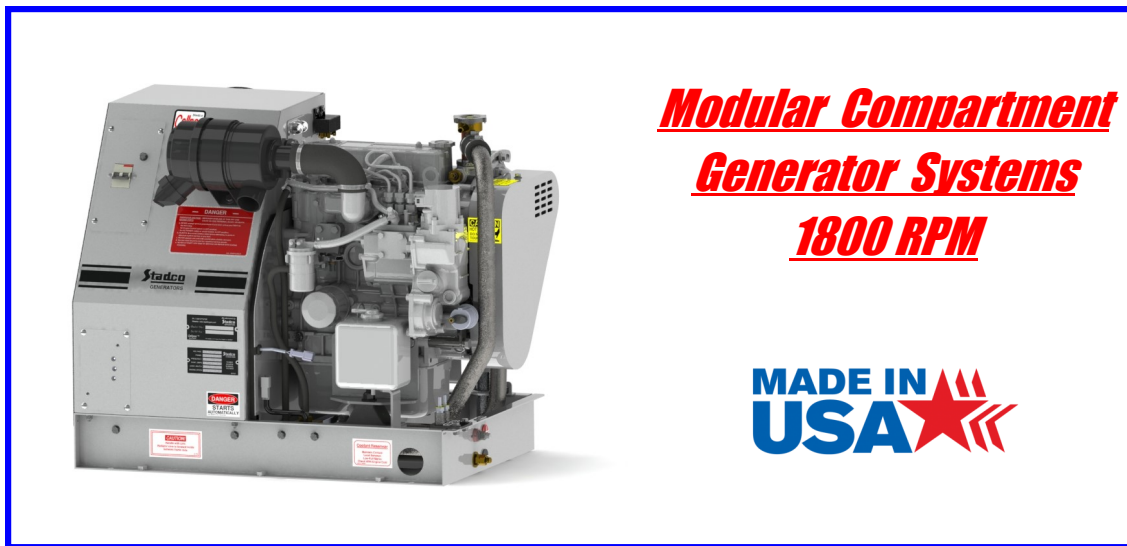
## SALES SPECIFICATIONS S84 1800 RPM DIESEL GENSETS

FOR COMPARTMENT APPLICATIONS

GENSET RATINGS		GENSET MODEL		
		CP7E	CP10E	CP15E
Spec. No.		CP7E16	CP10E17	CP15E16
Sales Drawing No.		12645	12831	12644
4-Leads, 1-Phase, 1.0 PF Unit Output Rating	Intermittent	7.0 KW	10.0 KW	14.0 KW
	Continuous	6.0 KW	9.0 KW	13.0 KW
Std. Unit Max. Rated Current Output. (1) Amps @ 240VAC, 1.0 PF.		30	41.5	62.5
A.C. Alternator Max. Capacity (2) 240V., 1-ph., 1.0PF	Amps @ 240V	35.4	45.8	68.8
	KW/KVA Intermittent	8.5	11	16.5
Series/Parallel Connection	% Efficiency	78	78.5	82.5
Load Circuit Breaker Capacity (2-poles)		32A	40A	63A
Optional 3-Phase Output		NA	NA	NA

- (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.

### CELLPAC - SUPER COMPACT POWER



**Modular Compartment  
Generator Systems  
1800 RPM**

**MADE IN  
USA**

<b>GENSET DATA</b>		<b>GENSET MODEL</b>		
		<b>CP7E</b>	<b>CP10E</b>	<b>CP15E</b>
<b><i>Engine Specifications</i></b>				
Diesel Engine with basic components naturally aspirated	Make	Mitsubishi	Mitsubishi	Mitsubishi
	Cylinders	3	3	4
	Liters / CID	0.95 / 58	1.32 / 81	1.75 / 107
	HP @ 1800 RPM SAE J1349	12.2	17.7	24.7
Speed/Frequency Regulation % (typical)		1.0	1.0	1.0
Battery Charging Alternator	Volts DC / Amps	12V / 40A	12V / 50A	12V / 50A
Fuel Consumption	100% Load GPH	0.8	1.1	1.5
	50% Load GPH	0.4	0.6	0.8
Recommended Diesel Fuel		#2D Red	#2D Red	#2D Red
		#2D Clear	#2D Clear	#2D Clear
Lube oil change Interval (Typical)		250 hrs.	250 hrs.	250 hrs.
Typical Cold Starting Capability w/o preheat		NA	NA	NA
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)
EPA Emissions Certification		Tier 4 Final	Tier 4 Final	Tier 4 Final
<b><i>Unit Specifications</i></b>				
Recommended Battery Size 12V. (CCA)	Normal	350	550	550
	Uprated	450	700	700
Recommended 12V Battery type; BCI#		24F	24F	24F
Average Sound Level (3)	dB(A) @ 1 Meters	78	80	82
	dB(A) @ 7 Meters	64	65	67
Unit Size	Length	30.7"	32.9"	37.8"
Refer to Stadco Sales Drawings for more details	Width	18.0"	18.3"	19.5"
	Height	25.2"	26.9"	26.8"
Approx. Unit Weight (Lbs)		440	540	695

(3) Sound level is based on engine manufacturer's specs, 4 directions averaged w/o fan or exhaust.

### **Standard Equipment**

<b>STANDARD EQUIPMENT</b>		<b>GENSET MODEL</b>		
		<b>CP7E</b>	<b>CP10E</b>	<b>CP15E</b>
<b><i>Engine - Diesel</i></b>				
Cooling System Aluminum Heat Exchanger	Liquid	•	•	•
	Lube Oil			
Coolant Reservoir w/ visual monitoring		•	•	•
Air Cleaner, Dry Type, Canister		•	•	•
Oil & Fuel Filters		•	•	•
Cold Start Preheat System 12V. DC		•	•	•
Fuel Transfer Pump	Mechanical			
	Electric 12V. (mtd.)	•	•	•

STANDARD EQUIPMENT	GENSET MODEL		
	CP7E	CP10E	CP15E
<b>Engine - Diesel</b>			
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	Elec.	Elec.	Elec.
12V Starting System w/ Battery Charging Alt.	•	•	•
<b>AC Generator</b>			
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	•	•	•
<b>#1779 Digital Control Protection System - Remote Panel</b>			
Toggle Switch Start & Stop	•	•	•
Engine Protection for: Oil press, Overheat, Overspeed, Overcrank, Starter Lockout	•	•	•
Digital Engine Controller & 12ft. Cord	•	•	•
Hourmeter, 12VDC C.B. & Fault Indicators	•	•	•
Remote Control Capable	•	•	•
<b>AC Control System</b>			
Main Load Circuit Breaker w/ load terminals	•	•	•
<b>Miscellaneous</b>			
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**

#### **#1779, Digital Control/Protection System, wall enclosure for remote mounting.**

Provides engine protection & fault indicators for: Low oil pressure, High engine temperature, Over-crank & Over-speed. Also indicators for engine starting, engine running & engine preheating. Input for shutdown and anti-restart when power is fed from separate source. 100 Event fault log. Optionally available with flat panel face configuration Kit #1791. System features an engine controller w/auto-crank that automatically preheats and cranks engine for a preset interval. Control system allows for multiple remote stations for convenient in-cab or pump panel starting. Includes: toggle power switch, 12VDC circuit breaker, 12VDC alternator light & **10 ft. control cord** with weatherproof connectors. Factory wired & tested. 8x8x4 NEMA3R Enclosure w/hinged cover. Fully wired, shipped loose. (See Control System Flier S160). AC Amps readout optionally available.

**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 #1790) on CP10 and up.  
 - A.C. Alternator: NEMA MGI-22.  
 - Engine: EPA 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 diesel engines offered have been factory equipped with special accessories that complement the Cellpac Package. 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 when requested.

## **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:** See Speed/Frequency Regulation.

**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 (2000) hours of service, whichever occurs first. See Warranty Statement #D25 for full details.

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

### ***STADCO PRODUCTS DIVISION***

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