

STADCO TOP DOGTM GENERATOR SYSTEM



10-25KW

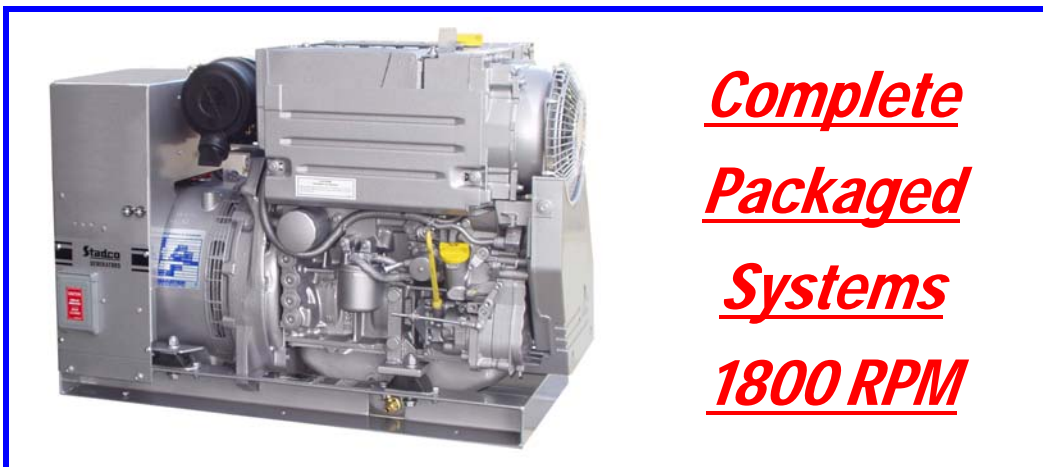
**SALES SPECIFICATIONS S82
1800 RPM DIESEL GENSETS**

**FOR GENERAL INDUSTRIAL APPLICATIONS
& NON-RESIDENTIAL MOTOR VEHICLES**

GENSET RATINGS		TM10	TD12	TD20	TD25
		Spec. No.	TM1009	TD1209	TD2009
Sales Drawing No.		11809A	12680A	12650	12651A
4-Leads, 1-Phase, 1.0 PF Unit Output Rating	Intermittent	10.0 KW	12.0 KW	20.0 KW	25.0 KW
	Continuous	9.0 KW	10.0 KW	17.0 KW	22.0 KW
Std. Unit Max. Rated Current: (1) Amps @ 240VAC, 1.0 PF.		41	50	79	104
A.C. Alternator Max. Capacity (2) 240V., 1-ph., 1.0PF Series/Parallel Connection	Amps @ 240V	45.8	60.4	83	112.5
	KW/KVA @ 125°C Rise	11.0	14.5	20.0	27.0
	% Efficiency	79	79	79	84
Load Circuit Breaker Capacity (2-poles)		40A	50A	80A	100A
Optional 3-Phase Output Rating (kW) 12-Lead	Intermittent	NA	NA	20.0 KW	25.0 KW
	Continuous	NA	NA	17.0 KW	22.0 KW

- (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.

For compartment applications with space limitations, inquire about our Stadco Cellpac super-compact compartment generator systems.



**Complete
Packaged
Systems
1800 RPM**

GENSET DATA		TM10	TD12	TD20	TD25
Engine Specifications					
Diesel Engine with basic components.	Make	Mitsubishi	Deutz	Deutz	Deutz
	Cylinders	3	2	3	3 / turbo
	Liters / CID	1.32 / 81	1.55 / 95	2.33 / 142	2.33 / 142
	HP @ 1800 RPM SAE J1349	17.7	20.3	32.0	43.0
Battery Charging Alternator	Volts DC / Amps	12V / 50A	12V / 55A	12V / 55A	12V / 55A
Fuel Consumption	100% Load GPH	1.1	1.1	1.6	2.2
	50% Load GPH	0.6	0.6	0.9	1.2
Recommended Diesel Fuel ASTM D975-96		2D Red 2D Clear	2D Red 2D Clear	2D Red 2D Clear	2D Red 2D Clear
Typical Cold Starting Capability w/ 15W-40 Lube Oil	12V Starting aid & uprated Battery.	-15°C (5°F)	-18°C (0°F)	-18°C (0°F)	-18°C (0°F)
EPA Emissions Certification		Interim Tier IV	Interim Tier IV	Tier II	Tier I
Unit Specifications					
Recommended Battery Size 12V. (CCA)	Normal	600	600	600	600
	Uprated	750	750	750	750
Recommended 12V Battery type; BCI#		24F	24F	24F	24F
(3) Average Sound Level	dB(A) @ 1 Meters	80	88	88	88
Unit Size Refer to Stadco Sales Drawings for more details	Length	37.5"	35.6"	38.1"	38.7"
	Width	18.8"	21.5"	21.5"	20.6"
	Height	27.9"	29.6"	28.5"	29.2"
Approx. Unit Weight (Lbs)		524	660	785	850

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

STANDARD EQUIPMENT		TM10	TD12	TD20	TD25
Engine - Diesel					
Cooling System	Liquid	•			
	Lube Oil/Air		•	•	•
Coolant Reservoir w/ visual monitoring		•	dipstick	dipstick	dipstick
Air Cleaner, Dry Type, Medium duty		•	•	•	•
Oil & Fuel Filters		•	•	•	•
Cold Start Preheat System 12V. DC					
Fuel Transfer Pump	Mechanical		•	•	•
	Electric 12V. (mtd.)	•			
Guards: Fan & V-belt		•	•	•	•
Exhaust Muffler (4)	Manifold Muffler		•	•	
	Remote Muffler	•			•
Side Oil filler		•	•	•	•
12V. Run/Stop Solenoid		•	•	•	•
Governor - Mechanical for Gen-Duty 5%		•	•	•	•
12V Starting System w/ Battery Charging Alt.		50A	80A	80A	60A

STANDARD EQUIPMENT		TM10	TD12	TD20	TD25
AC Generator					
Brushless Generator, Direct Coupled, 1-brg., 4-Lead, 1-Phase		•	•	•	•
Winding Insulation 40°C Ambient	Class F	•	•		•
	Class H			•	
Electronic Voltage Regulation: 2% w/ UFRO		•	•	•	•
12VDC Automatic Logic Controlled Control System #1556					
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					
Skid Base w/ 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

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

Provides engine protection & LED fault indicators for: Low oil pressure, High engine temperature, Overcrank & Overspeed. 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)
Also available with flat panel, open back; See Flier #S112.

MOUNTING BASE: Formed channel rail skid bases provide rigid trussing to accommodate varied mounting configurations. Equipped with captive type "floating" rubber vibration isolation mounts.

DEUTZ ENGINES: All Deutz engines offered are 2011 series engines. These engines are liquid cooled using lube oil as the cooling medium. Hot oil is circulated through a heat exchanger that is cooled with air pressure provided by the belt driven cooling blower. Anti freeze is eliminated. This design is extremely successful in industrial and construction markets and is a very high volume seller in the USA. Easy starting in all kinds of weather and fuel economy are its most appreciated characteristics.

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

A.) Brushless - Eliminates brush wear and 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 and motors.

STANDARD EQUIPMENT

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: Note location of standard muffler on individual sales drawing. An 8' section of flexible tailpipe is included with TM10 and TD25 Models.. Exhaust manifold is insulated with heat insulation wrap.

AIR CLEANER: Canister type air cleaner provides a high degree of engine intake noise silencing.

TESTING & QUALITY ASSURANCE: Each genset is individually factory load tested to confirm function and performance. Vital functions and results are documented. All engine adjustments are checked after test run.

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 from Optional Accessories List on price sheet.

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 clearances as shown on Stadco sales drawings.

WARRANTY STATEMENT: Stadco Top Dog™ 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.

INTENDED APPLICATIONS: General industrial applications and non-residential motor vehicles. Installations in over the road residential type motor vehicles such as motor homes, recreational vehicles or house bus must have prior written approval of Stadco factory engineers, otherwise all Stadco warranty provisions are null and void. Weather protection is highly recommended for units that will be used or stored outdoors.

STANDARDS: Gensets quoted herein meet the following standards:

- Electrical Instrumentation: UL listed. Wiring & electrical systems: NEMA Code
- NFPA 1901 (requires panel #1222)
- A.C. Alternator: NEMA MGI-22.
- Engine: EPA certification for applicable exhaust emissions.

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 Universal generator units into installations where personnel will be confined with the operating unit; unless a separate compartment is provided for the unit.

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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