



BENEFITS & FEATURES

CAT® GENERATOR SET PACKAGE

Cat generator set packages have been fully prototype tested and certified torsional vibration analysis reports are available. The packages are designed to meet the NFPA 110 requirement for loading, conform to the ISO 8528-5 steady state and fill transient response requirements.

CAT DIESEL ENGINES

The four-cycle Cat diesel engine combines consistent performance with excellent fuel economy and transient response that meets or exceeds ISO 8528-5. The engines feature a reliable, rugged, and durable design that has been field proven in thousands of applications worldwide in emergency standby installations.

COOLING SYSTEM

The cooling system has been designed and tested to ensure proper generator set cooling, and includes the radiator, fan, belts, and all guarding installed as standard. Contact your Cat dealer for specific ambient and altitude capabilities.

GENERATORS

The generators used on Cat packages have been designed and tested to work with the Cat engine. The generators are built with robust Class H insulation and provide industry-leading motor starting capability and altitude capabilities.

EMCP CONTROL PANELS

The EMCP controller features the reliability and durability you have to come to expect from your Cat equipment. The EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

200 ekW- 300 ekW

60 Hz

Standby	Prime
200ekW	180ekW
250ekW	225ekW
300ekW	275ekW

SPECIFICATIONS

ENGINE SPECIFICATIONS

Engine Model	Cat® C9 ACERT In-line 6, 4-cycle diesel
Bore x Stroke	112mm x 149mm (4.4in x 5.9in)
Displacement	8.8 L (538 in³)
Compression Ratio	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4
Emission Certifications	EPA Tier 3 - EPA Stationary Emergency

GENERATOR SET SPECIFICATIONS

Alternator Design	Brushless Single Bearing, 4 Pole
Stator	2/3 Pitch
No. of Leads	12
Available Voltage Options	600V/480V/240V/208V
Frequency	60Hz
Alternator Voltage	24V
Alternator Insulation & IP	Class H; IP23
Standard Temperature Rise	150 Deg C
Available Excitation Options	Self-Excited, AR
Voltage Regulation, Steady State +/-	≤0.5%



شركت آبادگستر تاسيسات ايرانيان

آدرس دفتـر مرکـزی: ایران - تهران -بزرگراه شـهید آیت الله اشـرفی اصفهانی - خیابان پیامبر شـرقی خیابان شـاهد - خیابان گلسـتان بیسـت و ششـم - پلاک یک - واحد پنج - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۹۱۰۹۲۰۷۶ - ۹۸۹۳۹۹۶۰۳۸۰۰ تلفن دفتر مرکزی: ۹۸۹۳۹۹۶۰۳۸۰۰ - تلفن همراه: ۹۸۹۳۹۹۶۰۳۸۰۰ تدرس پست الکترونیکی: info@atapars.com

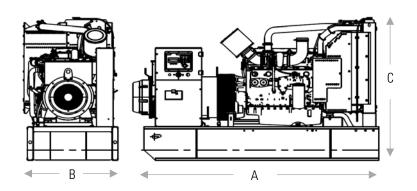
آدرس پست الکترونیکی: info@atapars.com info@atapars.com



Air inlet system Control panels EMCP4.2 control panel. Coolant drain fine with valve; terminated on edge of base. Fan and belt guards. Cooling system Cooling system Cooling system Cooling by stem Cooling system Cooling by stem Cooling system Co	STANDARD EQUIPM	ENT	OPTIONAL EQUIPMENT	
Coolant drain line with valve; terminated on adge of base. Fan and bet guards. Coolant Level Sensor Thermustats and housing, full open temperature 92 deg (198 deg F). Coolant level Sensor Thermustats and housing, full open temperature 92 deg (198 deg F). Coolant level sight gauge. Jacket water pump, gear driven, centrifugal. Exhaust system Exhaust manifold; dry. Fuel coolor. Fuel system Fuel coolor. Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. Generators and generator attachments Fower center, IP22 bottom cable entry Segregated low voltage wiring panel Governing system Cat Electronic Governor (ADEM A4). Lube system Oil cooler. Lube system Oil dirain lines with valve; piped to edge of base. Fuels disposal; piped to front of radiator. Starting/charging system Captive lines is function and part of the system Paint, Caterpillar Yellow. Careard. Enclosures Control panels Control panels EMCP 4.4 Local & Remote Annunciator EMCP 4.4 Control panels	Air inlet system	Aftercooler core, Turbocharger.		STD AIR CLEANER
Cooling system Cooling system	Control panels	<u> </u>	Air inlet system	Single Element Air Cleaner
Cooling system Thermostate and housing, full open temperature 92 dep C (198 dep f). Cooling system Exhaust system Exhaust system Exhaust system Exhaust manifold; dry. Primary fuel filter w/integral water separatur & secundary filter. Fuel cooler. Fuel system Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. Generators and generator attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Coverning system Cot Electronic Governor (ADEM A4). Lube system Oil cooler. Lube system Oil cooler. Cut Electronic Governor (ADEM A4). Oil cooler. Cut Flexibility and dipstick. Oil drain lines with valve; piped to edge of base. - Funes disposal; piped to front of radiator. Starting/charging system Caterial Paint, Caterpillar Yellow. Ceneral Paint, Caterpillar Yellow. Ceneral Control panels EMCP 4.4 Local & Remote Annunciator Discrete I/O Module Power terminal strips-880A & 600A 3-Pole 100% Rated-Dual (Manual) 3-Pole 100% Rated-Dual (Manual) 3-Pole 100% Rated-Dual (Manual) Sepole 100% Rated-Dual (Manual) Weather Protective Sound Altenuated Aluminium Enclosures Cooling system Cooling system Cooling system Stone guards. Enclosures Cooling system Stone guards. Fuel storage Sub Tank & Integral tank Bases Fuel storage Sub Tank & Integral tank Bases Fuel storage Generators and generator Battery Chargers System Captive linear vibration isolators Starting/charging System Captive linear vibration isolators			,	Dual Floment Air Cleaner
Cooling system Cooling System Cooli		Fan and belt guards.		
Thermostats and housing, full open temperature 92 deg of 1. Coolant level sight gauge. Jacket water pump, pear driven, centrifugal. Exhaust system Exhaust manifold, dry. Primary fuel filter w/integral water separator & secondary filter. Fuel cooler. Fuel system Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushlass, self-excited 2/3 pitch, rondom wound. IP23 Protection. Generators and generator attachments Power center, IP22 bottom cable entry Sogregated low voltage wiring panel Lube system Circuit Breakers Power center, IP22 bottom cable entry Sound Attenuated Atuminium Enclosures Cooling system Stone guards. Industrial grade (10 dBA) Exhaust system Cooling system Stone guards. Industrial grade (10 dBA) Exhaust system Sound Attenuated Atuminium Enclosures Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Luber content of adiator. Fuel storage Sub Tank & Integral tank Bases Starting/charging system Starting/charging system Starting/charging system Permanent magnet generator Starting/charging system Starting/charging system Starting/charging system Paint, Caterpillar Yellow. Second Attenuated Atuminium Enclosures Stone guards. Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Space heater control generator attachments Permanent magnet generator Mounting system Starting/charging system	Cooling system	Coolant Level Sensor		
Coolant level sight gauge. Jacket water pump, gear driven, centrifugal. Exhaust system Exhaust manifold; dry. Primary fuel filter w/integral water separator & secondary filter. Fuel system Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. Impact attachments Generators and generator attachments Governing system Cat Electronic Governor (ADEM A4). Lube system Oil cooler. Lube system Oil drain lines with valve; piped to edge of base. Fuenes disposal; piped to front of radiator. Starting/charging system Cannot level system Cooling system Cooling system Discrete I/U Module Power terminal strips-800A & 600A 3-Pole 100% Rated-Dual (Manual) External Paralleling Weather Protective Enclosures Sound Attenuated Aluminium Enclosures Cooling system Stone guards. Exhaust system Exhaust system Exhaust system Stone guards. Fuel storage Sub Tank & Integral tank Bases Space heater control Generators and generator attachments Mounting system Captive linear vibration isolators Starting/charging system Starting/charging System Fuel Set	Cooling system	0. 1	Control panels	Local & Remote Annunciator
Exhaust system Exhaust manifold; dry. Primary fuel filter w/integral water separator & secondary filter. Fuel cooler. Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Fower center, IP22 bottom cable entry Segregated low voltage wiring panel Cat Electronic Governor (ADEM A4). Circuit Breakers 3-Pole 100% Rated- Dual (Manual) External Paralleling Weather Protective Enclosures Sound Attenuated Aluminium Enclosures Cooling system Cooling system Stone guards. Cooling system Stone guards. Industrial grade (10 dBA) Exhaust system Residential and Critical grade (25 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Generators and generator attachments Generators and generator attachments Oil cooler. Lubricating oil. Oil drain lines with valve; piped to edge of base Furnes disposal; piped to front of radiator. Starting/charging system 24-volt electric starting motor. Starting/charging system General Fowers Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Captive linear vibration isolators Battery Chargers Jacket Water Heater Fowers Industrial grade (10 dBA) Fowers Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Starting/charging system Captive linear vibration isolators		Coolant level sight gauge.		Discrete I/O Module
Exhaust system Exhaust manifold; dry. Primary fuel filter w/integral water separator & secondary filter. Fuel cooler. Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Cooling system Cooling system Cooling system Cooling system Cooling system Exhaust system Enclosures Cooling system Cooling system Cooling system Cooling system Exhaust system Enclosures Cooling system Cooling system Cooling system Exhaust system Fuel storage Sub Tank & Integral tank Bases Lubricating oil. Generators and generator attachments Parmanent magnet generator Space heater control generator attachments Aluminium Enclosures Cooling system Storage quel (10 dBA) Exhaust system Residential and Critical grade (10 dBA) Industrial grade (10 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Aluminium Enclosures Storage quel				Power terminal strips- 800A & 600A
Fuel system Fuel cooler. Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. Generators and generator attachments Fower center, IP22 bottom cable entry Segregated low voltage wiring panel Cat Electronic Governor (ADEM A4). Lube system Oil cooler. Lubricating oil. Oil filter and dipstick. Oil drain lines with valve; piped to edge of base Fumes disposal; piped to front of radiator. Starting/charging system Caterial Paralleling Weather Protective External Paralleling Weather Protective Enclosures Sound Attenuated Aluminium Enclosures Cooling system Stone guards. Cooling system Stone guards. Exhaust system Exhaust system Besidential and Critical grade (25 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Fuel storage Space heater control generator attachments Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system General Fuel String/charging system Captive linear vibration isolators Talk Water Heater Fuel String/charging system Fuel String/charging system Captive linear vibration isolators Talk Water Heater Fuel String/charging System	Exhaust system	Exhaust manifold; dry.		
Fuel cooler. Fuel system Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Governing system Cat Electronic Governor (ADEM A4). Lube system Oil cooler. Lubricating oil. Oil drain lines with valve; piped to edge of base Furnes disposal; piped to front of radiator. Starting/charging system External Paralleling Weather Protective Enclosures Sound Attenuated Aluminium Enclosures Cooling system Stone guards. Exhaust system Residential and Critical grade (25 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Space heater control generator attachments Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system General General Fuel Strating for a give system Captive linear vibration isolators Starting/charging system Fuel Strating for a give system Captive linear vibration isolators Total Strating Chargers Jacket Water Heater Footoney Strating For a give system Fuel Str		Primary fuel filter w/integral water	Circuit Breakers	3-Pole 100% Rated- Dual (Manual)
Fuel priming pump. Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Cat Electronic Governor (ADEM A4). Exhaust system Cat Electronic Governor (ADEM A4). Cil cooler. Lubricating oil. Oil friter and dipstick. Oil drain lines with valve; piped to edge of base Furnes disposal; piped to front of radiator. Starting/charging system External Paralleling Weather Protective Sound Attenuated Aluminium Enclosures Cooling system Stone guards. Exhaust system Residential and Critical grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Generators and generator attachments Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system Starting/charging system Fuel Starting/charging system Captive linear vibration isolators Starting/charging system Facil Set		· · · · · · · · · · · · · · · · · · ·		3-Pole 100% Rated- Third (Manual)
Flexible fuel lines. Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Governing system Cat Electronic Governor (ADEM A4). Lube system Oil cooler. Lubricating oil. Oil filter and dipstick. Oil drain lines with valve; piped to edge of base Fumes disposal; piped to front of radiator. Starting/charging system Enclosures Sound Attenuated Aluminium Enclosures Soone guards. Industrial grade (10 dBA) Exhaust system Residential and Critical grade (25 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Generators and generator attachments Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system General Facil Set	Fuel system			External Paralleling
Engine fuel transfer pump. Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Cat Electronic Governor (ADEM A4). Dil cooler. Lube system Dil filter and dipstick. Dil drain lines with valve; piped to edge of base. - Fumes disposal; piped to front of radiator. Starting/charging system Enclosures Sound Attenuated Aluminium Enclosures Cooling system Stone guards. Industrial grade (10 dBA) Exhaust system Enclosures Sound Attenuated Aluminium Enclosures Stone guards. Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Space heater control generators and generator attachments Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system Starting/charging system Fuel Str. Fuel Str. Sacrenal Fuel Str. Fuel S				-
Brushless, self-excited 2/3 pitch, random wound. IP23 Protection. IP23 Protection. Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Segregated low voltage wiring panel Cat Electronic Governor (ADEM A4). Oil cooler. Lubricating oil. Oil drain lines with valve; piped to edge of base. - Fumes disposal; piped to front of radiator. Starting/charging system Paint, Caterpillar Yellow. Brushless, self-excited 2/3 pitch, random wound. Aluminium Enclosures Stone guards. Industrial grade (10 dBA) Exhaust system Stone guards. Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system Starting/charging system General Federal				
Generators and generator attachments Insulation Class H and temperature rise attachments Insulation Class H and temperature rise attachments Power center, IP22 bottom cable entry Industrial grade (10 dBA)		Brushless, self-excited 2/3 pitch, random	Enclosures	Sound Attenuated
Generators and generators and generators and generators. Power center, IP22 bottom cable entry				Aluminium Enclosures
Power center, IP22 bottom cable entry Segregated low voltage wiring panel Exhaust system Cat Electronic Governor (ADEM A4). Dil cooler. Lubricating oil. Oil drain lines with valve; piped to edge of base Furnes disposal; piped to front of radiator. Starting/charging system Power center, IP22 bottom cable entry Exhaust system Exhaust system Residential and Critical grade (25 dBA) Industrial grade (10 dBA) Fuel storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Permanent magnet generator Captive linear vibration isolators Starting/charging system Starting/charging system General Paint, Caterpillar Yellow. Tagl Set			Cooling system	Stone guards.
Governing system Cat Electronic Governor (ADEM A4). Dil cooler. Lubricating oil. Oil drain lines with valve; piped to edge of base. - Fumes disposal; piped to front of radiator. Starting/charging system Cat Electronic Governor (ADEM A4). Fuel storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Mounting system Captive linear vibration isolators Starting/charging system Starting/charging system Starting/charging system Paint, Caterpillar Yellow. Fuel storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Captive linear vibration isolators Starting/charging system Starting/charging system Tool Set	attachments	Power center, IP22 bottom cable entry		Industrial grade (10 dBA)
Oil cooler. Lubricating oil. Oil filter and dipstick. Oil drain lines with valve; piped to edge of base Fumes disposal; piped to front of radiator. Starting/charging system Starting/charging system Paint, Caterpillar Yellow. Fuel storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Captive linear vibration isolators Starting/charging system Starting/charging system Starting/charging system Fuel Storage Sub Tank & Integral tank Bases Space heater control Permanent magnet generator Captive linear vibration isolators Starting/charging system Starting/charging system Fuel Set		Segregated low voltage wiring panel	Exhaust system	Residential and Critical grade (25 dBA)
Lubricating oil. Oil filter and dipstick. Oil drain lines with valve; piped to edge of base. - Fumes disposal; piped to front of radiator. Starting/charging system 24-volt electric starting motor. 24-volt electric starting motor. Paint, Caterpillar Yellow. General Starting/charging system Paint, Caterpillar Yellow. Fumes disposal; piped to front of radiator. Starting/charging system	Governing system	Cat Electronic Governor (ADEM A4).		Industrial grade (10 dBA)
Lube system Oil filter and dipstick. Oil drain lines with valve; piped to edge of base Fumes disposal; piped to front of radiator. Starting/charging system 24-volt electric starting motor. 24V, 45 amp charging alternator. Paint, Caterpillar Yellow. Generators and generator attachments Mounting system Captive linear vibration isolators Starting/charging system Jacket Water Heater Fanot Set		Oil cooler.	Fuel storage	Sub Tank & Integral tank Bases
Lube system Oil filter and dipstick. Oil drain lines with valve; piped to edge of base. - Fumes disposal; piped to front of radiator. Starting/charging system 24-volt electric starting motor. Starting/charging alternator. Paint, Caterpillar Yellow. General Generators and generator attachments Permanent magnet generator Captive linear vibration isolators Starting/charging system Jacket Water Heater Tool Set		Lubricating oil.		-
Starting/charging system Starting/charging system 24-volt electric starting motor. Starting/charging system 24-volt electric starting motor. Starting/charging system Paint, Caterpillar Yellow. General Permanent magnet generator Mounting system Starting/charging system Starting/charging system Jacket Water Heater Tool Set	Lube system	Oil filter and dipstick.		Space heater control
Starting/charging system 24-volt electric starting motor. 24V, 45 amp charging alternator. Paint, Caterpillar Yellow. General Mounting system Captive linear vibration isolators Battery Chargers Jacket Water Heater Tool Set			generator attachments	Permanent magnet generator
Starting/charging system 24-voit electric starting motor. Starting/charging system Starting/charging system Jacket Water Heater Faint, Caterpillar Yellow. General Facel Set		· · · · ·	Mounting system	Captive linear vibration isolators
24V, 45 amp charging alternator. Paint, Caterpillar Yellow. General Concrete Tacket Water Heater Tack Set		24-volt electric starting motor.	Starting/charging	Battery Chargers
General Paint, Caterpillar Yellow. General Tool Set		24V, 45 amp charging alternator.		Jacket Water Heater
	General	Paint, Caterpillar Yellow.	0	
		Vibration damper.	General	Tool Set.



WEIGHTS & DIMENSIONS



Genset F	Genset Package		Dim "B"	Dim "C"	Open Generator Set	Maximum Weight (Dry) ²	
Standby	Prime	mm (in)	mm (in)	mm (in)	Weight (Dry) ¹ kg (lb)	kg (lb)	
200 ekW	180 ekW	3091 (122)	1622 (64)	2066 (82)	2157 (4755)	2692 (5935)	
250 ekW	225 ekW	3091 (122)	1622 (64)	2066 (82)	2248 (4956)	2692 (5935)	
300 ekW	275 ekW	3091 (122)	1622 (64)	2066 (82)	2313 (5100)	2908 (6411)	

¹Estimated weight includes standard generator, narrow skid base and heaviest mechanically operated standard single circuit breaker. ²Estimated weight includes oversize generator, wide skid base and heaviest circuit breaker configuration.



شركت آبادگستر تاسيسات ايرانيان

Cat® C9 INTEGRAL & SUB BASE FUEL TANKS





WEATHER PROTECTIVE & SOUND ATTENUATED FUEL TANKS

FEATURES

- UL Listed for United States (UL 142) and Canada (CAN/ULC S601)
- Facilitate compliance with NFPA 30 code, NFPA 37 and 110 standards and CSA C282 code.
- Dual wall
- Lockable fuel fill cap, 4" (101.6mm) NPT
- Low fuel level warning standard, customer configurable warning or shutdown Primary tank leak detection switch in containment basin.
- Tank design provides capacity for thermal expansion of fuel
- Fuel supply dip tube is positioned so as not to pick up fuel sediment
- Fuel return and supply dip tube is separated by an internal baffle to prevent immediate re-supply of heated return fuel
- Pressure washed with an iron phosphate solution
- Interior tank surfaces coated with a solvent-based thinfilm rust preventative
- Heavy guage steel gussets with internal lifting rings
- Primary and secondary tanks are leak tested at 20.7 kPa
 (3 psi) minimum
- Compatible with open packages and enclosures
- Gloss black polyester alkyd enamel exterior paint
- Welded steel containment basin (minimum of 110% of primary tank capacity)
- Direct reading fuel gauge with variable electrical output
- Emergency vents on primary and secondary tanks are sized in accordance with NFPA 30

Sub Base

 The sub-base fuel tank mounts below the generator set wide base

Integral Base

- Integral diesel fuel tank is incorporated into the generator set base frame.
- Robust base design includes linear vibration isolators between tank base and engine generator.

Options

- Audio/visual fuel level alarm panel
- 5gal (18.9 L) spill containment
- 5gal (18.9 L) spill containment with fuel fill drop tube with in 6" (152mm) from bottom of tank.
- 5gal (18.9 L) spill containment with overfill prevention valve and fuel fill drop tube with in 6" (152mm) from bottom of tank
- ULC Listed 7.5gal (28.4 L) spill containment with vent extensions, vent whistle, and drop tube facilitating compliance with CSA B139-09.
- ULC Listed 7.5gal (28.4 L) spill containment with overfill prevention valve, vent extensions, vent whistle and drop tube facilitating compliance with CSA B139-09



شركت آبادگستر تاسيسات ايرانيان

آدرس دفتـر مرکـزی: ایران - تهران -بزرگراه شـهید آیت الله اشـرفی اصفهانی - خیابان پیامبر شـرقی خیابان شـاهد - خیابان گلسـتان بیسـت و ششـم - پلاک یک - واحد پنج - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - خیابان گلسـتان بیسـت و ششـم - پلاک یک - واحد پنج - کد پسـتی ۱۴۷۳۶۸۹۹۹۶۳۸۰۰ تلفن دفتر مرکزی: ۹۱۰۹۲۰۷۶ - ۹۸۹۳۹۹۶۰۳۸۰۰ تافن دفتر مرکزی: ۹۸۹۳۹۹۶۰۳۸۰۰ تافن دفتر سایت: www.atapars.com

Cat® C9 INTEGRAL & SUB BASE FUEL TANKS



Integral & Sub-Base Fuel Tank Base Capacities with Fuel Tank Dimensions & Weights

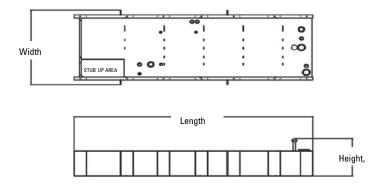
Integral – Width (W) 2014 mm (79.3 in); Sub-base – Width (W) 2056 mm (81.0 in)

Open Set, Weather Protective Enclosure & Sound Attenuated

				Use	eable			Tank	Only			Overall Package Height with Tank					
C9 Tank Design				Capacity		Dry Weight		Height 'H'		Length 'L'		Or	en	Weather Protective		Sound Attenuated	
	Lit e	Litr e	Gallo n	Litr e	Gallo n	kg	lb	m m	in	mm	in	mm	in	mm	in	mm	in
Integra I	FTDW010	784	207	770	203	891	1964	635	25.0	3810	150.0	2360	90.0	2438	96.0	2492	98.1
Sub- Base	FTDW008	2476	654	2435	643	1468	3236	635	25.0	3810	150.0	2699	106.3	2777	109.4	2831	111.5
Sub- Base	FTDW009	3941	1041	3876	1024	1832	4039	635	25.0	5550	219.0	2699	106.3	2777	109.4	2831	111.5
Sub- Base	FTDW012	4285	1132	4221	1115	1542	3399	686	27.0	5550	219.0	5550	219.0	2750	108.3	2828	111.4

Estimated Run Times (hours) at 100% Load

C9 Tank Design	Feature	Sta	ndby Ratings (ek	:W)	Prime Ratings (ekW)			
	Code	300	250	200	275	225	180	
Integral	FTDW010	9	11	13	10	11	14	
Sub-Base	FTDW008	28	33	42	30	35	46	
Sub-Base	FTDW009	45	53	67	48	56	73	
Sub-Base	FTDW012	48	57	72	52	60	79	



Cat® C9 INTEGRAL & SUB BASE FUEL TANKS



Notes:

The heights listed above do not include lumber used during manufacturing and shipping.

Tanks with full electrical stub-up area include removable end channel. Tanks with RH/LH stub-up include stub-up area directly below the circuit breaker or power terminal strips. Dimensions include weather-protective enclosure exhaust system.

Dual wall sub-base tanks are UL Listed and constructed in accordance with UL Standard for Safety UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids and Canada CAN/ULC S601, Standard for Shop Fabricated Steel Aboveground Horizontal Tanks for Flammable and Combustible Liquids.

Fuel tanks and applicable options facilitate compliance with the following United States NFPA Code and Standards:

NFPA 30: Flammable and Combustible Liquids Code

NFPA 37: Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines NFPA 110: Standard for Emergency and Standby Power Systems

Fuel tanks and applicable options facilitate compliance with the following Canadian Standard and Code:

CSA C282 — Emergency Electrical Power Supply for Buildings CSA B139-09 — Installation Code for Oil-Burning Equipment

The following sub-base fuel tanks meet Chicago code for containment and labelling:

FTDW008 FTDW009

FTDW012



شرکت آبادگستر تاسیسات ایرانیان

آدرس دفتـر مرکـزی: ایران - تهران -بزرگراه شـهید آیت الله اشـرفی اصفهانی - خیابان پیامبر شـرقی ا ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۹۱۰۹۲۰۷۶ - ۹۸۹۳۹۹۶۳۸۰۰ تلفن دفتر مرکزی: ۹۸۹۳۹۹۶۰۳۸۰۰ - ۳۸۲۱ میست الکترونیکی: ۱۱۴۵۳۵۳۸۵۰۰ قدرس بست الکترونیکی: info@atapars.com

Cat® C9 ENCLOSURES





SOUND ATTENUATED & HIGH AMBIENT ENCLOSURES

60 Hz

These Sound Attenuated & High Ambient, factory installed enclosures incorporate internally mounted super critical level silencers and residential level silencers respectively, designed for safety and aesthetic value on integral fuel tank base or optional dual wall integral fuel tank base for total fluid containment. These enclosures are of extremely rugged construction to withstand exposure to the elements and provide weather protection.

FEATURES

Robust/Highly Corrosion Resistant Construction

- Factory-installed on skid base
- Environmentally friendly, polyester powder baked paint
- Zinc plated or stainless steel fasteners.
- Internally mounted-critical exhaust silencing system (sound attenuated only)
- Externally front-mounted enclosed exhaust
- silencing system (weather protective only)
- Designed and tested to comply with UL 2200 listed generator set package.
- Compression door latches providing solid door seal

Excellent Access

- Large cable entry area for installation ease.
- Accommodates side-mounted single or multiple breakers
- Two doors on both sides
- Vertically hinged allow 180° opening rotation and retention with door stays.
- Lube oil and coolant drains routed to the exterior of the enclosure base.

Transportability

- These enclosures are of extremely rugged construction to withstand outdoor exposure and rough handling common on many construction sites.
- Security and Safety
- Lockable access doors which give full access to control panel and breaker.
- Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill, and battery can only be reached via lockable access.
- Externally mounted emergency stop button
- Designed for spreader bar lifting to ensure safety
- Stub-up area is rodent proof.

Options

- Caterpillar yellow* or white paint
- Weather protective enclosure constructed with14-gauge steel
- Sound attenuated Level 1 constructed with 14-gauge steel
- Sound attenuated Level 2 constructed with 14-gauge steel
- Sound attenuated enclosure constructed with 12-gauge aluminum (5052 grade)
- UL Listed 203 gallon integral fuel tank
- UL Listed 660 or 1002 gallon sub base fuel tanks
- Seismic certification per applicable building codes:
 - IBC 2000, IBC 2003, IBC 2006,
 - IBC 2009, IBC 2012, CBC 2007, CBC 2010
- IBC certification for 150 mph wind loading
- Anchoring details are site specific and are dependent on many factors such as generator set size, weight and concrete strength.
- IBC certification requires that the anchoring system used is reviewed and approved by a professional engineer.
- Control panel viewing window**
- Cold weather bundle. Available with SA Level 2 and Aluminum SA enclosures only.
 - **Not available with aluminum enclosures
 - **Steel sound attenuated only

Cat® C9 ENCLOSURES



Enclosure Package Operating Characteristics

			COOLING	AIR FLOW	AN	IBIENT CA	APABILIT	γ*	
ENCLOSURE	STANDBY	PRIME	R	ATE	Star	ıdby	Pr	ime	(DBA) @ 7M (23 FT)
TYPE	ekW	ekW	m³/min	cfm	°C	°F	°C	°F	AT 100% LOAD
SOUND	300	275	351	12395	46	115	50	122	71
ATTENUATED	250	225	351	12395	53	127	56	133	71
LEVEL 2	200	180	351	12395	59	138	60	140	71
SOUND	300	275	351	12395	46	115	50	122	75
ATTENUATED	250	225	351	12395	53	127	56	133	74
LEVEL 1	200	180	351	12395	59	138	60	140	73
	300	275	516	18222	49	120	52	126	82
WEATHER PROTECTIVE	250	225	516	18222	55	131	59	138	82
	200	180	516	18222	60	140	60	140	82
ALUMINUM	300	275	351	12395	46	115	46	115	72
SOUND	250	225	351	12395	53	127	56	133	72
ATTENUATED	200	180	351	12395	59	138	60	140	72

^{*}Cooling system performance at sea level. Consult your Caterpillar dealer for site specific ambient and altitude capabilities.

The sound pressure level data shown in the tables above is quoted as free field and is for guidance only. Actual levels produced may

Component Weights to Calculate Package Weight

vary according to site conditions.

							Aluminum Enclosure				
Narro	w Skid	Wide	e Skid	Weather Sound Protective Attenuated Level 1					Sound Attenuated		Attenuated
kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
219	483	468	1032	660	1455	1062	2341	1062	2341	629	1387



شركت آبادگستر تاسيسات ايرانيان

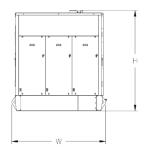
آدرس دفتـر مرکـزی: ایران - تهران -بزرگراه شـهید آیت الله اشـرفی اصفهانی - خیابان پیامبر شـرقی الا۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ خیابان شـاهد - کد پسـتی ۹۱۰۹۲۰۷۶ - ۹۸۹۳۹۹۶۰۳۸۰۰ تلفن دفتر مرکزی: ۹۸۹۳۹۹۶۰۳۸۰۰ تالفن دفتر مرکزی: ۹۸۹۳۹۹۶۰۳۸۰۰ آدرس پست الکترونیکی: info@atapars.com

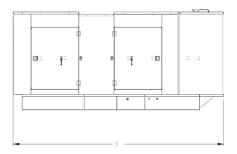
Cat® C9 ENCLOSURES



Enclosure Weights and Dimensions

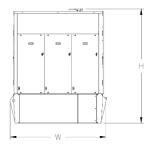
A. Enclosure on Skid Base

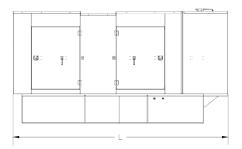




Enclosure Type	Leng	th "L"	Width	ı "W"	Height "H"		
	mm	in	mm	in	mm	in	
Sound Attenuated	4515	177.8	2037	80.2	2196	86.5	
Weather Protective	4035	158.9	2037	80.2	2142	84.3	

C. Enclosure on UL Listed 203 Gallon Integral Fuel Tank Base

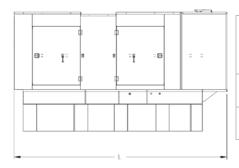




Enclosure Type	Leng	th "L"	Widtl	า "W"	Height "H"		
	mm	in	mm	in	mm	in	
Sound Attenuated	4515	177.8	2014	79.3	2492	98.1	
Weather Protective	4035	158.9	2014	79.3	2438	96.0	

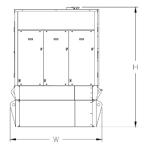
B. Enclosure on UL Listed 660 Gallon Sub Base Fuel Tank Base

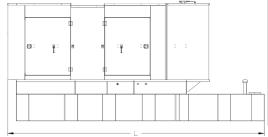




Enclosure Type	Leng	th "L"	Width	า "W"	Height "H"		
	mm	in	mm	in	mm	in	
Sound Attenuated	4515	177.8	2056	80.9	2831	111.5	
Weather Protective	4035	158.9	2056	80.9	2777	109.3	

D. Enclosure on UL Listed 1002 Gallon Sub Base Fuel Tank Base





Enclosure Type	Length "L"		Width "W"		Height "H"	
	mm	in	mm	in	mm	in
Sound Attenuated	5739	225.9	2056	80.9	2831	111.5
Weather Protective	5739	225.9	2056	80.9	2777	109.3

شركت آبادگستر تاسيسات ايرانيان



آدرس دفتـر مرکـزی: ایران - تهران -بزرگراه شـهید آیت الله اشـرفی اصفهانی - خیابان پیامبر شـرقی خیابان شـاهد - خیابان گلسـتان بیسـت و ششـم - پلاک یک - واحد پنج - کد پسـتی ۱۴۷۳۶۸۷۷۸۵ تلفن دفتر مرکزی: ۹۱۰۹۲۰۷۶ - ۹۸۲۱

آدرس سایت: www.atapars.com آدرس پست الکترونیکی: info@atapars.com www.atapars.com



EMCP 4 CONTROL KEY FEATURES

EMCP 4 control features

- Run / Auto / Stop Control
- Speed and Voltage Adjust
- Engine Cycle Crank
- 24-volt DC operation
- Environmental sealed front face
- Text alarm/event descriptions

Digital indication for:

- RPM
- DC volts
- Operating hours
- Oil pressure (psi, kPa or bar)
- Coolant temperature
- Volts (L-L & L-N), frequency (Hz)
- Amps (per phase & average)
- ekW, kVA, kVAR, kW-hr, %kW, PF (4.2 only)

Warning/shutdown with common LED indication of:

- Low oil pressure
- High coolant temperature
- Overspeed
- Emergency Stop
- Failure to start (overcrank)
- Low coolant temperature
- Low coolant level



Programmable protective relaying functions:

- Generator phase sequence
- Over/Under voltage (27/59)
- Over/Under Frequency (81 o/u)
- Reverse Power (kW) (32) (4.2 only)
- Reverse reactive power (kVAr) (32RV)
- Overcurrent (50/51)

Communications:

- 4 digital inputs & 4 relay outputs (4.1)
- 6 digital inputs & 8 relay outputs (4.2)
- 12 digital inputs & 8 relay outputs (4.4)
- Customer data link (Modbus RTU) (4.2 only)
- Accessory module data link (4.2 only)
- Serial annunciator module data link (4.2 only)
- Emergency stop pushbutton

Compatible with the following:

- Digital I/O module
- Local Annunciator
- Remote CAN annunciator
- Remote serial annunciator

FINANCING

Caterpillar offers an array of financial products to help you succeed through financial service excellence. Options include loans, finance lease, operating lease, working capital, and revolving line of credit. Contact your local Cat dealer for availability in your region.

WORLDWIDE PRODUCT SUPPORT

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries. The Caterpillar® SOSSM program effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.

BUILT FOR IT.

©2018 Caterpillar All rights reserved. Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, S•0•S, BUILT FOR IT, "Caterpillar Yellow", the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used





شركت آبادگستر تاسيسات ايرانيان