Standard Equipment

Generator

- LC1514P frame; 3-phase random wound, 12 lead, self excited, 2/3 pitch
- Coastal insulation protection (CIP)

Cat C4.4 Diesel Engine

- Turbocharged
- Electronic governor, mechanical actuator

Air Filter

- Air cleaner, cyclonic/paper with dust cup and service indicator

Cooling System

- Package mounted radiator with vertical air discharge
- High ambient performance
- Fully guarded pusher fan
- Low coolant level shutdown
- Coolant piped to base via radiator-mounted ball valve
- 50% glycol mix with corrosion inhibitor

Charging System

- Charging alternator; 12V, heavy duty with integral regulator and belt guards

Starting System

- Single 12V electric starting motor
- Single 12V 950CCA maintenance-free battery with padlockable single-pole isolator switch

Fuel System

- 24hr dual wall fuel tank (based on 75% Prime load)
- Internal fuel fill
- Off-engine mounted Racor fuel water separator (30 micron) with secondary engine-mounted fuel filter
- Auxilary connections for remote supply with 3-way valve
- 3-way valve internally mounted within bunded area
- Mechanical fuel gauge
- Electronic fuel gauge with panel display, low fuel level warning and shutdown

Control Panel

- XQCP set mounted digital controller
- 50/60Hz frequency switch (via terminal link)
- AVR with D350 excitation module
- Panel & enclosure mounted emergency stop

Distribution System

- Single robust steel enclosure for controls & distribution
- Separately hinged distribution door with 12V DC shunt trip safety switch
- 4 pole, 125A main circuit breaker
- Two-wire remote start/stop terminals and AC aux power connection for rapid starting

Mounting System

- Heavy duty steel baseframe with integral fuel tank (dual wall)
- Provides 110% spill containment including all on-board fluids
- Forklift pockets
- Heavy duty drag bar with skid plates
- Generator set soft mounted using captive vibration mounts

Enclosure

- Sound attenuating, galvanised sheet steel enclosure with exceptional noise reduction performance
- Interior walls, ceilings and ducts insulated with precision cut noise insulating materials
- Sealed quarter-turn compression latches with key or padlock capabilities
- Front and rear service access provided through hinged doors
- External single point lift
- Powder coated with Cat Rental Power decals

Exhaust System

- Integrated certified spark arresting silencer with flexible connectors
- Outlet box mounted with vertical discharge

Lube Oil System

- On-engine primary and secondary oil filters, dipstick and oil filler
- Open crankcase breather with fumes disposal container and drain point
- Oil piped to edge of baseframe with internally mounted ball valve
- 500 hour oil change requirement

General

- Factory Tested
- Full manufacturer's warranty, O&M manuals

Fuel Specifications

Specification Standard	Grade Class	Fuel Description
EN 590	Grade A to F & Class 0 to 4	European automotive fuel (DERV)
ASTM D975	1-D S15	U.S. special purpose light middle distillate
		15ppm sulphur
ASTM D975	2-D S15	U.S. special purpose light middle distillate
		15ppm sulphur
JIS K2204	No. 1	Japanese automotive diesel. Different classes correspond to season and district where used
	No. 2	
	No. 3	
	Special No. 3	
BS 2869	Class A2	Fuel oil for agriculture and industrial engines (red diesel)
MIL-DTL-83133 NATO F34	JP-8	Aviation kerosene fuels - acceptable when used with appropriate lubricity additive, and must meet minimum requirements of Caterpillar Specification for Diesel Fuel. The lubricity of these fuels must not exceed wear scar diameter of 0.52mm (0.02047 in) as per ISO 12156-1
MIL-DTL-83133 NATO F35		
MIL-DTL-5624 NATO F44	JP-5	
MIL-DTL-38219 (USAF)	JP-7	
NATO XF63		
ASTM D1655	JET A	
	JET A1	
B5-B7		Blend of biodiesel meeting EN 14214 or ASTM D6751 with EN 590 or ASTM D975 standard mineral diesel fuels
B7-B20		

Technical Data

Cat Generator	
Frame size	LC1514P
Pitch	2/3
No. of poles	4
Excitation	Static regulated, brushless, self excited
No. of bearings	Single bearing, close coupled
Insulation	Class H
Temperature rise	125/40°C
Enclosure	Drip proof IP23
Overspeed capability (% of rated)	25%
Voltage regulator	3-phase sensing with adjustable volts per hertz
Voltage regulation	Less than ± 0.5%
Wave form deviation: Telephone Influence Factor (THF) Harmonic Distortion (THC)	 Less than 2% Less than 2%

Cat Generator Set			
	Units	**Prime — 50 Hz**	**Prime — 60 Hz**
Power Rating	kVA (kW)	60 (48)	68 (54)
Performance Specification			
Lubricating System Oil pan capacity	 L (gal)	 7 (1.85)	
Fuel System Fuel consumption — 100% Load 75% Load 50% Load Fuel tank capacity Running time @ 75% rating	 L/hr (gal/hr) L/hr (gal/hr) L/hr (gal/hr) L (gal) Hr	 16.5 (4.4) 12.4 (3.3) 8.3 (2.2) 301 (79.5) 24	 18.8 (5.0) 14.3 (3.8) 9.8 (2.6) 21
Cooling System Ambient capability Engine & radiator coolant capacity Engine coolant capacity	 °C (°F) L (gal) L (gal)	 48 (118.4) 13 (3.4) 7.0 (1.8)	 49 (120.2) 13 (3.4) 7.0 (1.8)
Air Requirements Combustion air flow	 m^3/min (cfm)	 4.7 (166)	 5.8 (204.9)
Exhaust System Exhaust flow at rated — dry exhaust Exhaust temperature at rated kW	 m^3/min (cfm) °C (°F)	 11.5 (406.1) 540 (1004)	 13.5 (476.7) 542 (1007.6)
Noise Rating (with enclosure) **Sound Power** @ 7 meters @ 75% load @ 7 meters @ 100% load @ 1 meter @ 75% load @ 1 meter @ 100% load	 dB(A) dB(A) dB(A) dB(A) dB(A)	 93 63.2 64.6 73.3 74.4	 95 66.5 67.4 76.4 77.4

Technical Data (continued)

Dimensions			
	Length mm (in)	Width mm (in)	Height mm (in)
Generator Set	2610 (103)	1120 (44.1)	1776.5 (70)

Weight	
	Weight — kg (lb)
Lube Oil & Coolant — Empty Fuel Tank	1715 (3781)
Full Fuel Tank	2029 (4473)

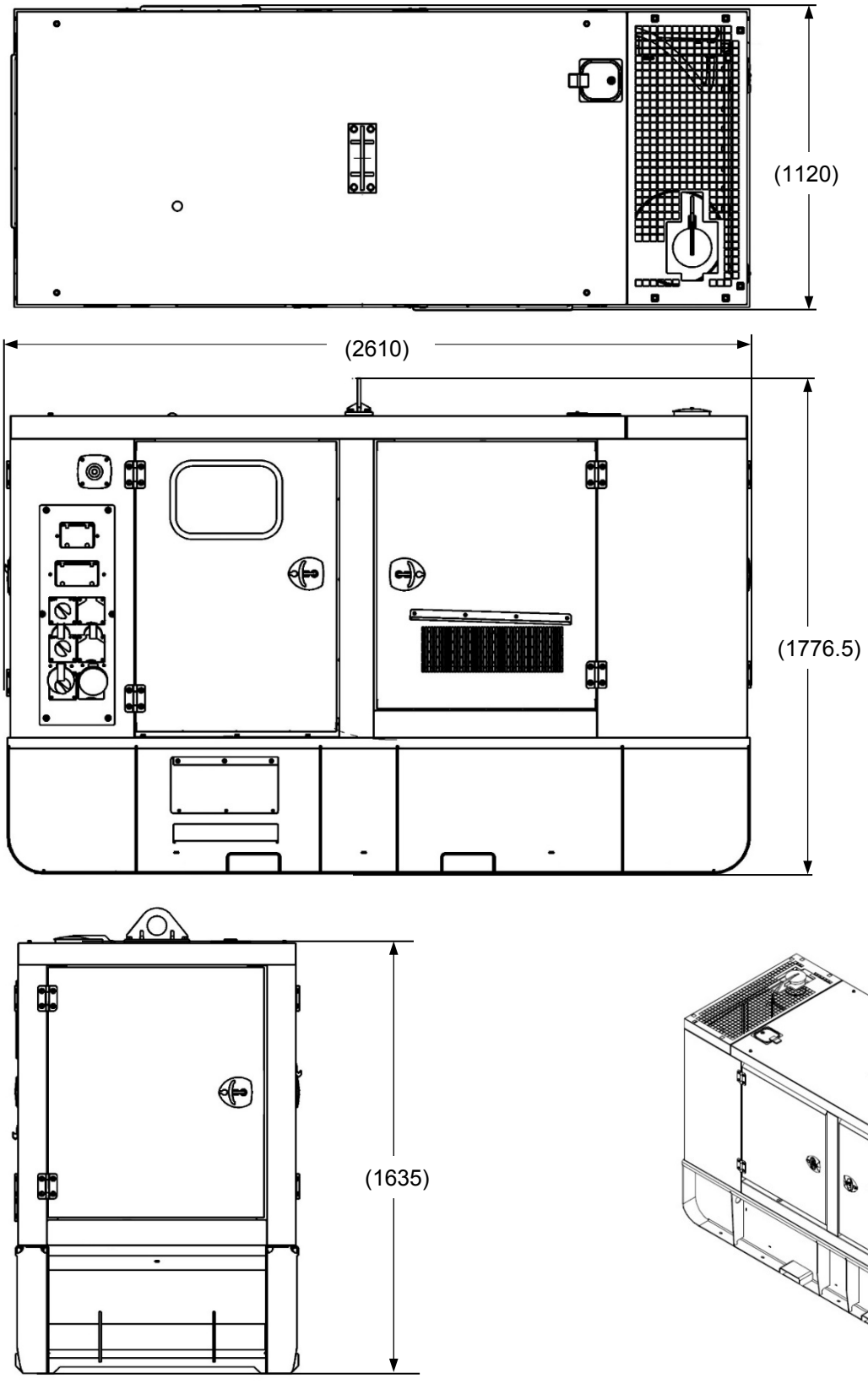
Socket Box Option

Sockets	15A	16A	32A	50A	63A	125A
Clipsal*	2x1ph+N+E	–	1x3ph+N+E	–	–	–
CEE Form*	–	2x1ph+N+E	1x3ph+N+E	–	1x3ph+N+E	–

*Busbar connection is standard. Distribution sockets are optional.

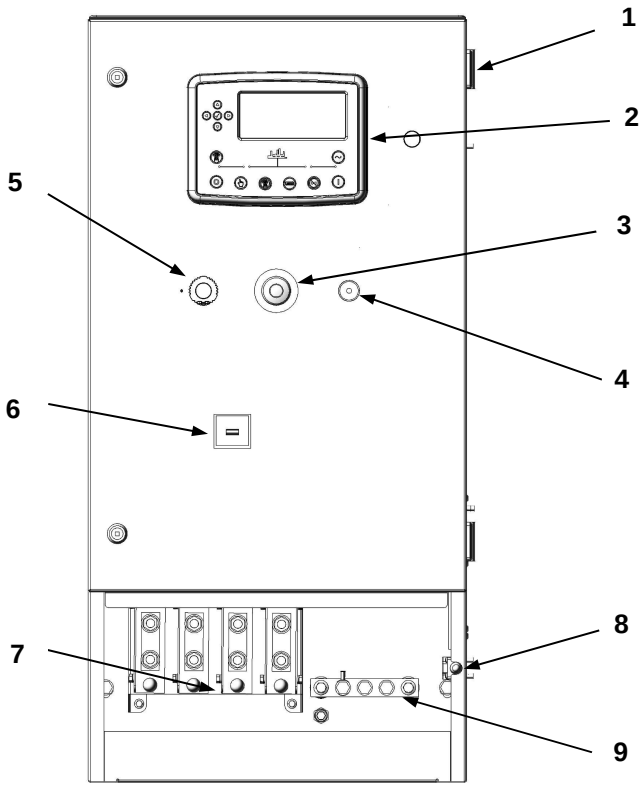
Layout for General Dimensions

Dimensions in millimeters



Control Panel and Power Distribution Layout

Item	Description
1	Steel enclosure with hinged, lockable door
2	XQCP Control Pannel
3	Emergency Stop button
4	Alarm
5	Service tool connector
6	Circuit breaker. 4-pole molded case
7	Main bus connection (bus bars with M12 studs)
8	Micro safety switch for bus bar door
9	Main earth terminal



Rating Definitions and Conditions

Designed to Meet Specifications: ISO 8528, EN 12601, EN 60204-1, ISO 3046, IEC 60034.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions.

Prime — Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Fuel rates are based on fuel oil of 35º API [16ºC (60ºF)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29ºC (85ºF) and weighing 838.9 g/liter (7.001 lbs/U.S. gal).

Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding low sulfur fuel and biodiesel capability, please consult your Cat dealer.

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