

Standard Equipment

Generator

- LC1514F frame; 3-phase random wound, 12 lead, self excited, 2/3 pitch
- Coastal insulation protection (CIP)

Cat C3.3 Diesel Engine

- Naturally aspirated
- 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
- Auxiliary connections for remote supply with 3-way valve
- 3-way valve internally mounted within banded area
- Mechanical fuel gauge
- Electronic fuel gauge with panel display, low fuel level warning and shutdown

Control Panel

- EMCP 4.2B set mounted digital controller
- 50/60Hz frequency switch (via terminal link)
- IVR with EM10 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, 200A 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
- Skid plates with drag points
- 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		
B7-B20		

Technical Data

Cat Generator	
Frame size	LC1514F
Pitch	2/3
No. of poles	4
Excitation	Static regulated, brushless, self excited
Number 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 (TIF)	Less than 2%
Harmonic Distortion (THD)	Less than 2%

Cat Generator Set			
	TMI Performance No. Units	Prime — 50 Hz	Prime — 60 Hz
Power Rating	kVA (kW)	30 (24)	35.8 (28.6)
Performance Specification			
Lubricating System			
Oil pan capacity	L (gal)	7 (1.85)	
Fuel System			
Fuel consumption — 100% Load	L/hr (gal/hr)	7.2 (1.9)	8.6 (2.3)
75% Load	L/hr (gal/hr)	5.6 (1.5)	6.6 (1.7)
50% Load	L/hr (gal/hr)	4.1 (1.1)	4.9 (1.3)
Fuel tank capacity	L (gal)	147 (108)	
Running time @ 75% rating	Hr	26	22
Cooling System			
Ambient capability	°C (°F)	55 (135)	50 (122)
Engine & radiator coolant capacity	L (gal)	10.2 (2.7)	10.2 (2.7)
Engine coolant capacity	L (gal)	4.4 (1.2)	4.4 (1.2)
Air Requirements			
Combustion air flow	m ³ /min (cfm)	-	-
Exhaust System			
Exhaust flow at rated — dry exhaust	m ³ /min (cfm)	5.7 (201)	6.4 (226)
Exhaust temperature at rated kW	°C (°F)	500 (932)	520 (968)
Noise Rating (with enclosure)*			
Sound Power*			
@ 7 meters @ 75% load	dB(A)	88	89
@ 7 meters @ 100% load	dB(A)	60	62
@ 1 meter @ 75% load	dB(A)	62	63
@ 1 meter @ 100% load	dB(A)	72	73
	dB(A)	73	74

*Guaranteed sound power as per 2000/14/EC

For full Engine & Emissions data please refer to TMI using the engine performance no.



Technical Data (continued)

Dimensions			
	Length mm (in)	Width mm (in)	Height mm (in)
Generator Set	2150 (84.6)	1120 (44.1)	1583 (62.3)

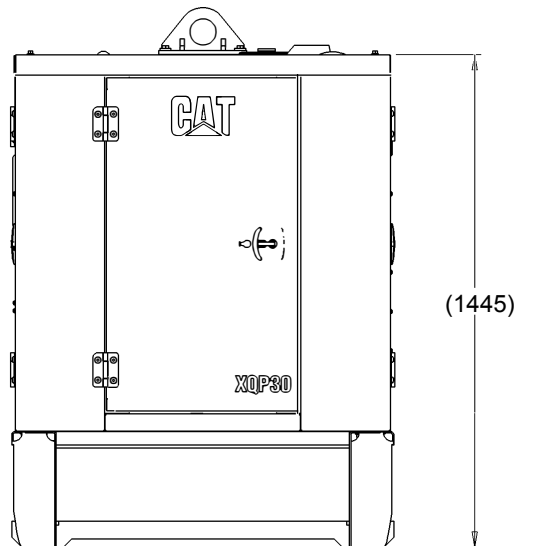
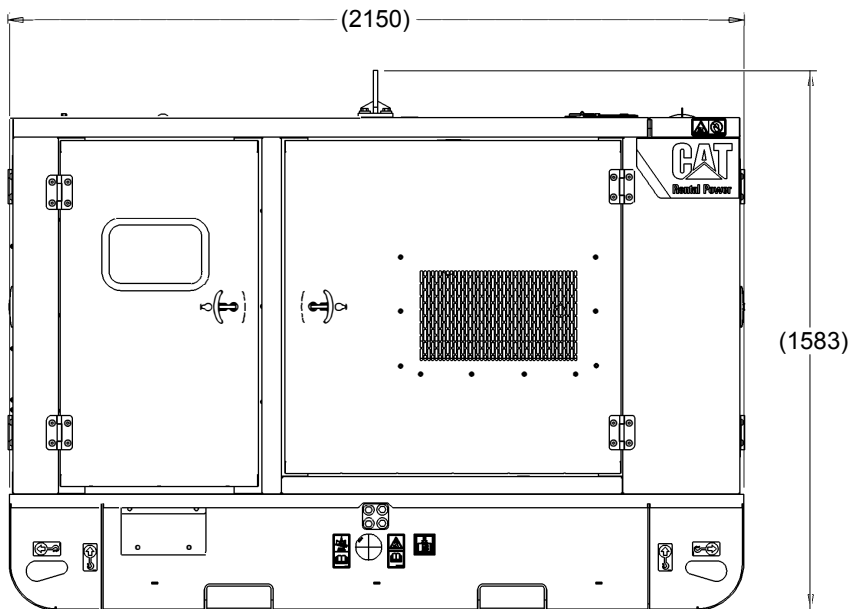
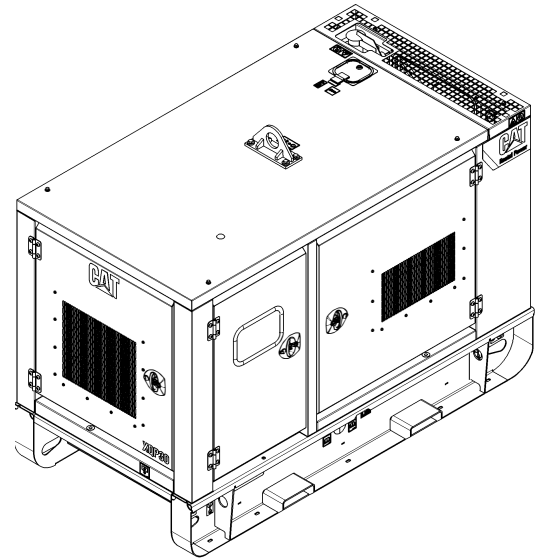
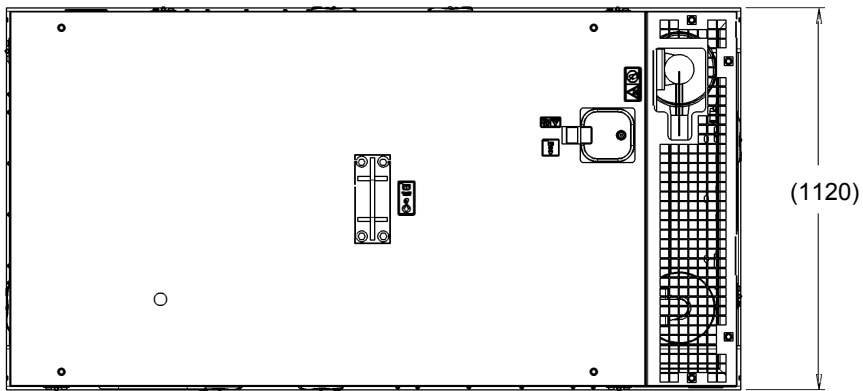
Weight	
	Weight — kg (lb)
Lube Oil & Coolant — Empty Fuel Tank	1230 (2712)
Full Fuel Tank	1385 (3053)

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

*Busbar connection is standard. Distribution sockets are optional.

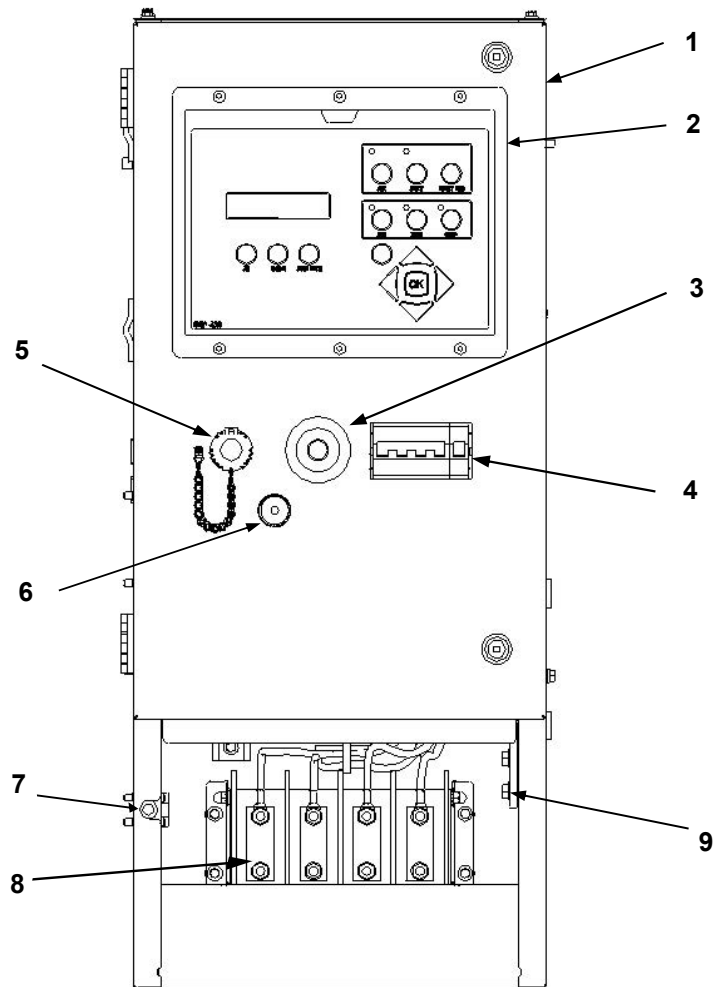
Layout for General Dimensions

Dimensions in millimeters



Control Panel and Power Distribution Layout

Item	Description
1	Steel enclosure with hinged, lockable door
2	EMCP 4.2B
3	Emergency Stop button
4	Circuit breaker. 4-pole MCB
5	Service tool connector
6	Alarm
7	Micro safety switch for busbar door
8	Main bus connection (busbars with M8 studs)
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 ISO3046 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 kW 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 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) 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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