

C18

550 ekW/ 688 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 2 Nonroad Equivalent Emission Standards)



Image shown may not reflect actual configuration

**C18**  
**550 ekW/ 688 kVA**  
**60 Hz/ 1800 rpm/ 480 V**

	Metric	English
<b>Package Performance</b>		
Genset Power Rating with Fan @ 0.8 Power Factor	550 ekW	
Genset Power Rating	688 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
<b>Fuel Consumption</b>		
100% Load with Fan	151.1 L/hr	39.9 gal/hr
75% Load with Fan	118.1 L/hr	31.2 gal/hr
50% Load with Fan	86.1 L/hr	22.7 gal/hr
25% Load with Fan	44.2 L/hr	11.7 gal/hr
<b>Cooling System<sup>1</sup></b>		
Engine Coolant Capacity	20.8 L	5.5 gal
<b>Inlet Air</b>		
Combustion Air Inlet Flow Rate	46.3 m <sup>3</sup> /min	1634.9 cfm
Max. Allowable Combustion Air Inlet Temp	50 ° C	121 ° F
<b>Exhaust System</b>		
Exhaust Stack Gas Temperature	520.6 ° C	969.1 ° F
Exhaust Gas Flow Rate	128.9 m <sup>3</sup> /min	4551.5 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



C18

550 ekW/ 688 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 2 Nonroad Equivalent Emission Standards)

**Heat Rejection**

Heat Rejection to Jacket Water	180 kW	10236 Btu/min
Heat Rejection to Exhaust (Total)	595 kW	33837 Btu/min
Heat Rejection to Aftercooler	141 kW	8019 Btu/min
Heat Rejection to Atmosphere from Engine	77 kW	4379 Btu/min
Heat Rejection to Atmosphere from Generator	33 kW	1854 Btu/min

**Alternator<sup>2</sup>**

Motor Starting Capability @ 30% Voltage Dip	1445 skVA
Current	827 amps
Frame Size	LC6114G
Excitation	SE
Temperature Rise	130 ° C

**Emissions (Nominal)<sup>3</sup>**

NOx	2703.5 mg/Nm <sup>3</sup>	5.5 g/hp-hr
CO	161.0 mg/Nm <sup>3</sup>	0.3 g/hp-hr
HC	4.6 mg/Nm <sup>3</sup>	0.0 g/hp-hr
PM	13.2 mg/Nm <sup>3</sup>	0.0 g/hp-hr

**DEFINITIONS AND CONDITIONS**

1. For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.
2. UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.
3. Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 btu/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

**C18**

**550 ekW/ 688 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor**

**Rating Type: STANDBY**

**Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 2 Nonroad Equivalent Emission Standards)**

**Applicable Codes and Standards:**

AS1359, CSA C22.2 No100-04, UL142,UL489, UL869, UL2200,  
NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528,  
NEMA MG1-22,NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

**STANDBY:**Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions

**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.

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

Performance No.: DM8517-04

Feature Code: C18DE6D

Generator Arrangement: 4183869

Date: 03/05/2018

Source Country: U.S.

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.