ELECTRIC POWER - Technical Spec Sheet
STANDARD

C32
880 ekW/ 1100 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

C32
880 ekW/ 1100 kVA
50 Hz/ 1500 rpm/ 400 V

Image shown may not reflect actual configuration

	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	880 ekW	
Genset Power Rating	1100 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	223.5 L/hr	59.0 gal/hr
75% Load with Fan	168.1 L/hr	44.4 gal/hr
50% Load with Fan	116.1 L/hr	30.7 gal/hr
25% Load with Fan	68.2 L/hr	18.0 gal/hr
Cooling System[1]		
Engine Coolant Capacity	55.0 L	14.5 gal
Radiator Water Capacity High Temp Circuit	171 L	45 gal
Radiator Water Capacity Low Temp Circuit	N/A	N/A
Radiator Total Capacity	171 L	45 gal
Inlet Air		
Combustion Air Inlet Flow Rate	66.0 m³/min	2332.0 cfm
Max. Allowable Combustion Air Inlet Temp	47 ° C	117 ° F
Exhaust System		
Exhaust Stack Gas Temperature	508.7 ° C	947.7 ° F
Exhaust Gas Flow Rate	180.1 m³/min	6359.7 cfm
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

Heat Rejection		
Heat Rejection to Jacket Water	319 kW	18167 Btu/min
Heat Rejection to Exhaust (Total)	818 kW	46518 Btu/min
Heat Rejection to Aftercooler	181 kW	10283 Btu/min
Heat Rejection to Atmosphere from Engine	120 kW	6797 Btu/min
Heat Rejection to Atmosphere from Generator	49 kW	2804 Btu/min

Alternator[2]	
Motor Starting Capability @ 30% Voltage Dip	2297 skVA
Current	1588 amps
Frame Size	1402
Excitation	IE
Temperature Rise	150 ° C

Emissions (Nominal)[3]		
NOx	2966.9 mg/Nm³	5.8 g/hp-hr
CO	308.9 mg/Nm³	0.6 g/hp-hr
HC	4.0 mg/Nm³	0.0 g/hp-hr
PM	14.1 mg/Nm³	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.

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.

Rating Type: MISSION CRITICAL STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

MISSION CRITICAL STANDBY: Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the standby power rating. Typical peak demand up to 100% of standby rated ekW for 5% of the operating time. 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 15° C (59° F) and weighing 850 g/liter (7.094 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.

Performance No.: EM0447-02

Feature Code: C32DR68

Generator Arrangement: 4630134

Date: 08/27/2020

Source Country: U.S.