C18 ACERT 440 ekW/ 550 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: PRIME



C18 ACERT 440 ekW/ 550 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	440 ekW	
Genset Power Rating	550 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	111.0 L/hr	29.3 gal/hr
75% Load with Fan	83.9 L/hr	22.2 gal/hr
50% Load with Fan	58.8 L/hr	15.5 gal/hr
25% Load with Fan	34.4 L/hr	9.1 gal/hr
Cooling System ¹		
Engine Coolant Capacity	20.8 L	5.5 gal
Inlet Air		
Combustion Air Inlet Flow Rate	29.2 m³/min	1032.0 cfm
Max. Allowable Combustion Air Inlet Temp	47 ° C	117 ° F
Exhaust System		
Exhaust Stack Gas Temperature	543.1 ° C	1009.6 ° F
Exhaust Gas Flow Rate	83.5 m³/min	2948.0 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



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Rating Type: PRIME

Fuel Strategy: LOW FUEL CONSUMPTION

Heat Rejection		
Heat Rejection to Jacket Water	146 kW	8309 Btu/min
Heat Rejection to Exhaust (Total)	404 kW	22965 Btu/min
Heat Rejection to Aftercooler	63 kW	3606 Btu/min
Heat Rejection to Atmosphere from Engine	78 kW	4438 Btu/min
Heat Rejection to Atmosphere from Generator	31 kW	1763 Btu/min

Alternator ²			
Motor Starting Capability @ 30% Voltage Dip	1205 skVA		
Current	794 amps		
Frame Size	A3325L4		
Excitation	AR		
Temperature Rise	125 ° C		

Emissions (Nominal) ³		
NOx	4029.2 mg/Nm ³	8.1 g/hp-hr
СО	615.0 mg/Nm ³	1.2 g/hp-hr
HC	3.3 mg/Nm ³	0.0 g/hp-hr
РМ	10.4 mg/Nm ³	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.

ELECTRIC POWER - Technical Spec Sheet STANDARD

C18 ACERT 440 ekW/ 550 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor



Fuel Strategy: LOW FUEL CONSUMPTION

Rating Type: PRIME

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.

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.

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

Performance No.: DM9819-03 Feature Code: U.K:C18DEAB,China: C18DEBB Generator Arrangement: 5027418 Date: 05/20/2016 Source Country: U.K.or China

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