FSA20-EQU18.0, ITEM# 128

GENERATOR: 500kW Generator Package

Caterpillar C15 - 500KW BASE

Feature Qty Description

CERTESE_I 1 EPA STATIONARY EMERGENCY

60H0480_I 1 60HZ 480 VOLT (WYE)
STANDBY_I 1 STANDBY POWER
KW00500_I 1 500ekW, 60Hz, 1800rpm
C15DECF_I 1 C15 60HZ PKG 500 CERTESE

ULLIST_I 1 UL 2200 LISTED PACKAGE GEN SET

NONCSA_I 1 NO CSA CERTIFICATION
NONIBC_I 1 NO SEISMIC CERTIFICATION

LANENGO I 1 ENGLISH INSTRUCTION LANGUAGE

ESCNONE I 1 STANDARD WARRANTY

MSEPGGN_I 1 GENERAL EPG
MSCEC70_I 1 ENERGY UTILITIES
MWCODEF I 1 STANDBY POWER

PMEXCI3 I 1 PERMANENT MAGNET EXCITATION 03

SHK0012_I 1 SPACE HEATER 12 OGNSE1N_I 1 LC6114F SE ALT 1N

GENMTG I 1 GEN MOUNTING DUCT PLATE

STDIVR_I 1 INTEGRATED VOLTAGE REGULATOR
GENT130_I 1 130C TEMP RISE OVER 40C AMB
MNTWB04_I 1 WIDE BASE W/EXTENSION 04
NOMITKB_I 1 NO MICHIGAN TANK KITBUNDLE

FTDW005_I 1 1000 Gal SUB TANK BASE

FFOPV2_I 1 OVERFILL PREV & SPILL CONTAIN
FAHL90_I 1 AUD&VIS FUEL ALARM (90% LEVEL)
FAPLS01_I 1 90% FUEL ALARM PANEL & SENSOR
ENCAL02 I 1 Aluminium SA Enclosure- White

IBCWBC2_I 150 MPH IBC CERT WIND ENCLOSU
NOCOLDB_I 1 NO COLD WEATHER BUNDLE.
EMCP42B_I 1 EMCP4.2B CONTROL PANEL
EMCCPLH I 1 CONTROL PANEL MOUNTING LEFT

CT1005A I 1 1000:5 CT RATIO

HTRCG01_I 1 HEATER CONTROL GROUP BAT2454 I 1 STANDARD WET BATTERY

BTC1028_I 1 BATTERY CHARGER 10 AMP DUAL

LDC125A_I 1 125A LOAD CENTER

PWRCTRH_I 1 POWER CENTER - RH MOUNTED SINGLE_I 1 SINGLE CIRCUIT BREAKER CBK0701_I 1 600A LSI SINGLE MANUAL CB NOSUSE_I 1 NO SUSE DECALS & FILMS

NTS1_I 1 NEUTRAL BAR NTS1 NONNTD I 1 NOT REQUIRED

STDRAD_I 1 STANDARD RADIATOR
CAN I 1 ENCLOSURE SILENCER

EMCLAM1 I 1 LOCAL ANNUN NFPA99-110/CSA282

ANNR001_S 1 QTY REMOTE ANNUNC
ANNMB01_S 0 ANNUNCIATOR BOX
ANNR010_S 0 QTY REMOTE ANNUNC
EMGSTP1_S 0 REMOTE E-STOP BUTTON
PLG641_I 1 PRODUCT LINK GEN CELLULAR

PLG641_I 1 PRODUCT LINK GEN CELLULAR
TCVYES_I 1 ACCEPT - REVIEW LINK IN DESC
STDTEST I 1 STD TEST - PKG GEN SET 0.8 PF

CATDEC I 1 CAT DECALS

ELECTRIC POWER - Technical Spec Sheet STANDARD



500 ekW/ 625 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)



C15 ACERT 500 ekW/ 625 kVA 60 Hz/ 1800 rpm/ 480 V

Image shown may not reflect actual configuration

	Metric	English
Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	500 ekW	
Genset Power Rating	625 kVA	
Aftercooler (Separate Circuit)	N/A	N/A
Fuel Consumption		
100% Load with Fan	137.0 L/hr	36.2 gal/hr
75% Load with Fan	110.5 L/hr	29.2 gal/hr
50% Load with Fan	71.3 L/hr	18.8 gal/hr
25% Load with Fan	41.9 L/hr	11.1 gal/hr
Cooling System ¹		
Engine Coolant Capacity	20.8 L	5.5 gal
nlet Air		
Combustion Air Inlet Flow Rate	38.2 m³/min	1347.7 cfm
Max. Allowable Combustion Air Inlet Temp	49 ° C	120 ° F
Exhaust System		
Exhaust Stack Gas Temperature	531.1 ° C	988.0 ° F
Exhaust Gas Flow Rate	102.1 m³/min	3605.5 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water

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Heat Rejection		
Heat Rejection to Jacket Water	182 kW	10375 Btu/min
Heat Rejection to Exhaust (Total)	493 kW	28039 Btu/min
Heat Rejection to Aftercooler	121 kW	6860 Btu/min
Heat Rejection to Atmosphere from Engine	91 kW	5182 Btu/min
Heat Rejection to Atmosphere from Generator	29 kW	1655 Btu/min

Alternator ²			
Motor Starting Capability @ 30% Voltage Dip	1428 skVA		
Current	752 amps		
Frame Size	LC6114F		
Excitation	SE		
Temperature Rise	130 ° C		

Emissions (Nominal) ³		
NOx	2129.1 mg/Nm³	4.6 g/hp-hr
CO	301.5 mg/Nm³	0.6 g/hp-hr
HC	8.8 mg/Nm³	0.0 g/hp-hr
PM	9.5 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.

ELECTRIC POWER - Technical Spec Sheet STANDARD



500 ekW/ 625 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

Performance No.: DM8155-04

Feature Code: C15DECF

Generator Arrangement: 4183867

Date: 07/05/2016

Source Country: U.S.

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