GRUPOS ELECTROGENOS INDUSTRIALES

Model:TC- LC530

Powered by CUMMINS

Output Rating

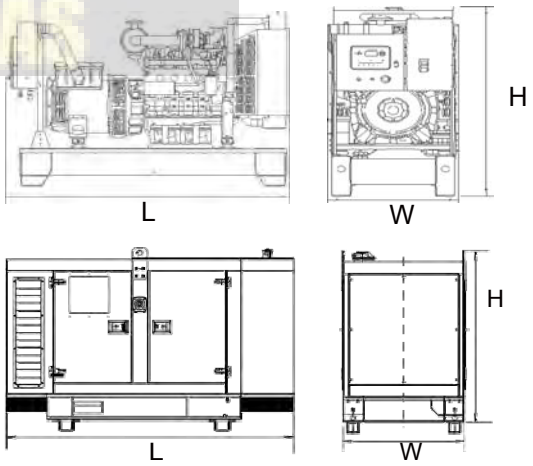
MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
C530D5	400V/50HZ	400KW	424KW	380/220V 400/230V 415/27V
	PF:0.8	400KVA	530KVA	

General Information

Model		C530D
Engine		QSZ13-G3
Speed control type		Electronical
Phase		3
Control System		Digital
System voltage		24V
Frequency		50HZ
Engine Speed(RPM)		1500
Fuel Consumption (L/hr)	Standby power(2)	70.4
	Prime Power(1)	65.2
	75% prime power	53.0
	50% prime power	28.0

Dimension and Weight

Dimension	Open	Silent
Length (L)	3600mm	5030mm
Width (W)	1355mm	1380mm
Height (H)	1910mm	2260mm
Net Weight	3970KG	5200KG



* 2006/42/EC Machinery safety.
* 2006/95/EC Low voltage
* EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.

▪Engine Specification

Compression Ratio:	**16.6:1**	Aspiration:	**Turbocharged and Charge Air Cooled**
Bore:	**114 mm**	Displacement:	**13.0 L**
Storke:	**145 mm**	No. of Cylinders:	**6**
Emission Certification:	**MEP STAGE II**	Fuel System:	**FR92516: BYC P7100/GAC**
Governor Regulation:	**≤3%**		**FR92996: BYC P7100/SEGMA**

ENGINE MOUNTING

Maximum (Static) Bending Moment at Rear Face of Block	-N.m	1356

EXHAUST SYSTEM

Maximum Back Pressure	-kPa	10

AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner		
— Dirty Element	-kPa	6
— Clean Element	-kPa	4

CHARGE AIR COOLING SYSTEM

Maximum Temp. Rise Between Engine Air Intake and Intake Manifold	-℃	25
Maximum Air Pressure Drop from Turbo Air outlet to Intake Manifold		
— 1500RPM	-kPa	8.5
— 1800RPM	-kPa	13.5
Maximum Intake Manifold Temperature Differential (Ambient to IMT) (IMTD)	-℃	50
Maximum Intake Manifold Temperature for engine protection (Warning Threshold)	-℃	93

LUBRICATION SYSTEM

Minimum Engine Oil Pressure for Engine Protection Devices:		
— Idle Speed	-kPa	103
— Governed Speed	-kPa	276-414
Maximum Oil Temperature	-℃	121
Minimum Required Lube System Capacity - Sump plus Filters	-litre	45.42

FUEL SYSTEM

Type Injection System	BYC P7100 Direct Injection	
Maximum Restriction at Lift Pump	-kPa	20.3
Maximum Fuel Flow on the Supply Side of the Fuel Pump	-litre/hr	83
Maximum Fuel Inlet Temperature	-℃	70
Total Drain Flow (constant for all loads)	-litre/hr	30

COOLING SYSTEM

Coolant Capacity - Engine Only	-litre	23.1
Maximum Coolant Friction Head External to Engine -1800 rpm	-kPa	35
-1500 rpm	-kPa	28
Maximum Static Head of Coolant Above Engine Crank Centerline	-m	18.3
Standard Thermostat (Modulating) Range	-℃	82 - 93
Minimum Pressure Cap	-kPa	103
Maximum Top Tank Temperature for Standby / Prime Power	-℃	110 / 104

▪ Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		Brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

Control Panel: AMF20

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- Perfect price/performance ratio

Features

- Support of engines equipped with Electronic Control Unit (J1939 interface)
- Comprehensive diagnostic messages; SPN/FMI codes; KWP2000 support
- Automatic or manual start/stop of the gen-set
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display 128x64 pixels
- 6 LED indicators
- Parameters adjustable via keyboard or PC
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface (AT-LINK CONV cable is necessary for IL-AMF 20)
- Modem communication support (IL-AMF 25 only)
- Dimensions 180x120 mm (front panel)
- Sealed to IP65

- Mains measurements (50/60 Hz): U1-U3, Hz
- Generator measurements (50/60 Hz): U1-U3, I1-I3, Hz, kW, kVAr, kWh
- Selectable protections alarm/ shutdown
- 3 phase Generator protections
  - Over-/under voltage
  - Over-/under frequency
  - Current/voltage asymmetry
  - Overcurrent/overload
- 3 phase AMF function
  - Over-/under frequency
  - Over-/under voltage
  - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions

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