



重庆康明斯发动机有限公司  
发动机性能曲线

特征编号  
D233031DX02

发动机型号: KTA38-G5

性能曲线号: FR-6141

CPL号: 1543  
日期: 2013/9/17

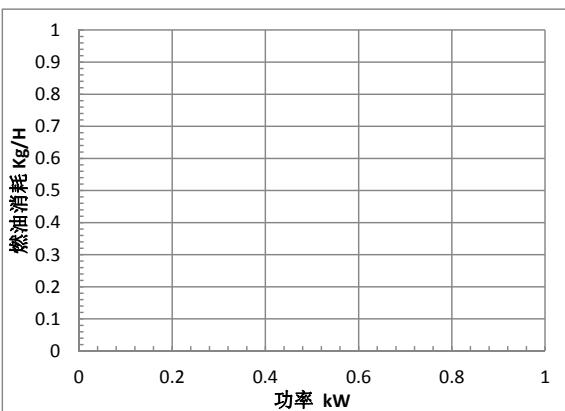
排量: 38L (2300) 进气方式: 废气涡轮增压, 中冷 功率标定  
缸径X行程: 159X159mm (6.25X6.25 in.) 燃油系统: 康明斯PT系统  
压缩比: 13.9:1 气缸数: V-12 970 kW(1300 BHP)@1500r/min

所有的数据均是基于发动机带燃油泵、水泵、机油泵、空滤器和消声器运转时获得的，但不包括交流发电机、空压机、风扇、选用设备和驱动件。数据随时可能更改，恕不另行通知。

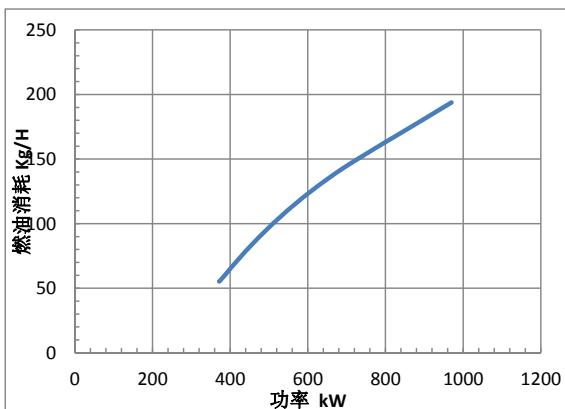
### 发动机输出功率

发动机转速 rpm	备用功率		常用功率		持续功率	
	BHP	kW	BHP	kW	BHP	kW
1800						
1500	1300	970	1180	881	880	657

### 燃油消耗



输出功率 %	输出功率		燃油消耗量		燃油消耗率	
	BHP	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
<b>1800RPM</b>						
备用功率						
100	1300	970	427	194	200	0.329
常用功率						
100	1180	881	392	178	202	0.332
75	885	661	302	137	207	0.341
50	664	496	212	96	194	0.319
25	498	372	122	55	149	0.245
<b>1500RPM</b>						



以上所有的数据都是基于或修正至SAE J1995标准规定的条件——海拔90m (300ft.)，大气压力100kPa (29.61in.Hg)，进气温度25°C (77°F)，水蒸汽压力1.0kPa (相对湿度30%)，使用美国标准2#柴油。

CCEC 技术部发布

允差5%

朱革  
总工批准

康明斯内部资料



# CHONGQING CUMMINS ENGINE COMPANY LTD.

## ENGINE PERFORMANCE CURVE

CONFIGURATION  
D233031DX02

ENGINE MODEL: KTA38-G5

CURVE NUMBER: FR-6141

CPL No.: 1543

DATE: 2013/9/17

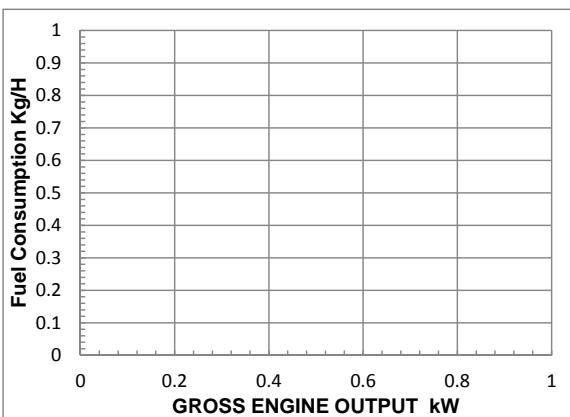
Displacement: 38L (2300) Aspiration: Turbocharged , Aftercooled RATING  
 BoreXStroke: 159X159mm (6.25X6.25 in.) Fuel System: Cummins PT  
 Compress Ratio: 13.9:1 No. of Cylinder: V-12 970 kW(1300 BHP)@1500r/min

All data is based on the engine operating with fuel system, water pump, and 20 in. H<sub>2</sub>O(4.98kPa) inlet air restriction with 5.8 in.(147mm) inner diameter, and with 2 in. Hg(7kPa) exhaust restriction with 8 in.(203mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolant as 50% ethylene glycol/50% water. All data is subject to change without notice.

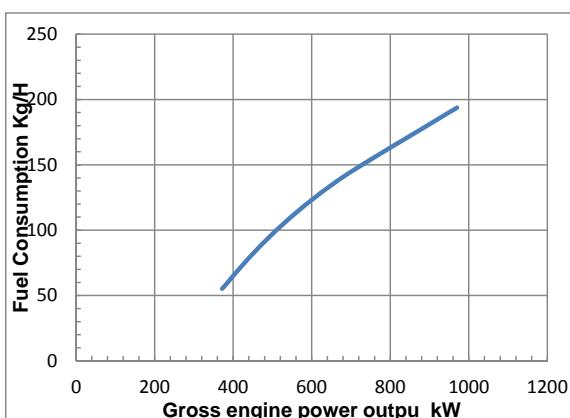
### GROSS ENGINE POWER OUTPUT

SPEED rpm	STANDBY POWER		PRIME POWER		CONTINUOUS POWER	
	BHP	kW	BHP	kW	BHP	kW
1800						
1500	1300	970	1180	881	880	657

### FUEL CONSUMPTION



%	OUTPUT POWER		CONSUMPTION		BFSC	
	BHP	kW	Lb/h	Kg/h	g/kW.h	Lb/BHP.h
1800RPM						



STANDBY	1500RPM					
	100	1300	970	427	194	200
PRIME	100	1180	881	392	178	202
	75	885	661	302	137	207
	50	664	496	212	96	194
	25	498	372	122	55	149
						0.329
						0.332
						0.341
						0.319
						0.245

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 in. Hg(100kPa) barometric pressure [300ft.(91m) altitude] 77deg F (25 deg C) inlet temperature, and 0.30 in. Hg(1kPa) water vapor pressure with No.2 diesel fuel.

TECHNICAL DATA DEPT.

CERTIFIED WITHIN 5%

CHIEF ENGINEER

Cumminis Confidential



# G驱动发动机功率标定使用准则

以下准则阐明了确保G驱动发动机应用于交流发电机组的正确使用规范。G驱动发动机并不是为变速的直流发电机组而设计的，也不是作为直流发电机组的动力来使用。

**备用功率标定**是在市电出现异常时作为应急电源使用时的瞬时最大功率。该标定无超负荷能力。且不能与市电并网运行。

此标定的发动机应安装在有效电网覆盖区域内。备用功率标定的发动机按平均负荷率为80%来使用，一年不超过200小时。在备用功率点使用时每年不超过25小时。备用功率标定的发动机只能在断电时作为应急电源使用。电网预先通知的断电不属于应急电源使用范畴。

## 持续功率标定

可以恒定按100%标定负荷、无时限连续使用的功率。按此标定的发动机无超负荷能力。

**常用功率标定**是可以替代商业电网电力来使用的功率。常用功率必须按下列两种类型之一来使用。

## 无时限运行常用功率

按常用功率标定的发动机，可有效地变负荷无时限使用。在每250小时的运行周期内，可变负荷的均值不能超过所标定常用功率的70%。

一年内，100%常用功率的整个运行时间不超过500小时。

在12小时运行周期内，有1小时有效超负荷10%的能力。在一年内，超负荷10%运行的整个时间不超过25小时。

## 限时运行常用功率

按常用功率标定的发动机，可以无时限运行于不变负荷用途。诸如使用功率低而输出功率受限的场合。在功率决不会超过常用功率标定的前提下，每年内可与市电并网运行750小时。但长期高负荷运行将缩短发动机寿命。一年内并网运行超过750小时时，请按持续功率标定运行。

## **参考标准：**

以ISO-3046为基础的BS-5514和DIN-6271标准。

## **环境温度和海拔变化后的修正：**

发动机可以在下面的条件下运行，而功率不必进行调整：

转速为1500r/min的发动机，海拔高度低于1500m (5000ft)，环境温度低于40°C (104°F)。

发动机超出上述条件运行，海拔高度高于1500m (5000ft)时，每升高300m (1000ft)，功率下调4%；环境温度高于40°C (104°F)时，每升高11°C，功率下调2% (升高10°F，下调1%)。



## POWER RATING APPLICATION GUIDELINES FOR GENERATOR DRIVE ENGINES

These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set installations. Generator drive engines are not designed for and shall not be used in variable speed D.C. generator set applications.

**STANDBY POWER RATING** is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the standby Power rating.

This rating should be applied where reliable utility power is available. A standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

### **CONTINUOUS POWER RATING**

Applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.

**PRIME POWER RATING** is applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

### **UNLIMITED TIME RUNNING PRIME POWER**

Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of period of 250 hours.

The total operating time at 100% Prime Power shall not exceed 500 hours per year.

A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

### **LIMITED TIME RUNNING PRIME POWER**

Prime Power is available for a limited number of hours in a non-variable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at Prime Power rating should use the Continuous Power rating.

#### **Reference Standards:**

BS-5514 and DIN-6271 standards are based on ISO-3046.

#### **Operation At Elevated Temperature And Altitude:**

The engine may be operated at:

1500RPM up to 5,000 ft.1,500m) and 104°F (40°C) without power deration.

For sustained operation above these conditions, derate by 4% per 1,000ft. (300m), and 1% per 10°F (2% per 11°C).



# 重庆康明斯发动机有限公司

## 数据单

发动机型号: **KTA38-G5**

备用功率:

970 kW @1500r/min

参考信息:

特征编号 ..... D233031DX02

1300 BHP @1500r/min

CPL ..... 1543

常用功率:

881 kW @1500r/min

数据单号 ..... DS-6141

1180 BHP @1500r/min

性能曲线号 ..... FR-6141

**整机数据**

机型	四冲程、V型、十二缸
进气方式	废气涡轮增压, 中冷
缸径—mm(in.)×冲程—mm(in.)	159×159 (6.25×6.25)
排量—L(in <sup>3</sup> )	38 (2300)
压缩比	13.9:1

**发动机干重**

风冷带飞轮—kg(lb)	3719	(8200)
热交换器—kg(lb)	4366	(9625)

**发动机湿重**

风冷带飞轮—kg(lb)	3946	(8700)
热交换器—kg(lb)	5003	(11030)
运动零件相对于曲轴中心线的转动惯量 (不包括飞轮) —kg•m <sup>2</sup> (lb <sub>m</sub> ·ft <sup>2</sup> )	3.96	(94.0)
• 飞轮选用件 FW 6001E —kg•m <sup>2</sup> (lb <sub>m</sub> ·ft <sup>2</sup> )	10.45	(248.0)
• 飞轮选用件 FW 6011E —kg•m <sup>2</sup> (lb <sub>m</sub> ·ft <sup>2</sup> )	20.78	(493.0)
质心至飞轮壳后端的距离 (FH6024) mm(in)	980	(38.6)
质心在曲轴中心线上方—mm(in)	279	(11.0)
后端主轴承允许的最大静载荷—kg(lb)	907	(2000)
发火顺序	1R-6L-5R-2L-3R-4L-6R-1L-2R-5L-4R-3L	

**发动机悬置安装**

在缸体后端面处的最大允许弯矩—N•m(lb.ft)	6101	(4500)
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**排气系统**

最大允许排气背压—kPa(in.Hg)	10	(3)
标准容许的排气管直径—mm(in)	152	(6)

**进气系统**

## 允许的最大进气阻力

脏滤芯—kPa(in. H <sub>2</sub> O)	6.23	(25)
干净滤芯—kPa(in. H <sub>2</sub> O)	3.73	(15)

**冷却系统**

## 冷却液容量

仅发动机—L(U.S.Gal)	123.8	(32.7)
包含热交换器 HX 6076 (不包含膨胀水箱) — L(U.S.Gal)	199.5	(52.7)
海平面高度压力盖允许的最小压力—kPa(PSI)	69	(10)
外循环水最大阻力 —kPa(PSI)	34.5	(5.0)
冷却系统外部最大压力损失 —kPa(PSI)	34.5	(5.0)
热交换器 HX 6076 中的生水在 32°C (90°F) 时的最小流量—L/min(GPM)	409	(108)
热交换器 HX 6076 中的生水最大进水压力—kPa(PSI)	345	(50)



# 重庆康明斯发动机有限公司

## 数据单

第 2 页，共 3 页

顶部水箱允许的最高温度（备用/常用）—℃(°F).....	104/100	(220/212)
标准节温器温度调节范围—℃(°F).....	82-93	(180-200)
最大冷却液静压（不使用压力盖）—kPa(PSI).....	103	(15)
最小冷却液补水能力—L(U.S.Gal).....	23.8	(6.3)
生水泵最大进水阻力—mm Hg(in. Hg).....	254	(10)
允许的最小补水速率—L/min(U.S.GPM).....	18.9	(5)
允许的最大首次补水时间—min.....	5	
允许的最小冷却液膨胀体积占系统容积—%.....	5	
允许的最大排气时间—min.....	25	
<b>润滑系统</b>		
机油压力		
低怠速时(最小)—kPa(PSI).....	138	(20)
额定转速时—kPa(PSI).....	310-448	(45-65)
额定转速时的机油流量—L/min(U.S.GPM).....	469	(124)
允许的最高机油温度—℃(°F).....	121	(250)
机油旁通滤清器容量		
旋装式—L(U.S.Gal).....	2 X 2.6	(2 X 0.7)
可换滤芯式—L(U.S.Gal) .....	2 X 11.0	(2 X 2.9)
机油盘容量（选用件 OP6024）		
高位—L(U.S.Gal).....	151.4	(40.0)
低位—L(U.S.Gal).....	121.1	(32.0)
系统总容量（包含旁通滤清器）—L(U.S.Gal).....	135.1	(35.7)
标准机油盘的倾斜角（选用件 OP6024）		
前俯角.....	30°	
前仰角.....	30°	
<b>燃油系统</b>		
燃油喷射系统形式.....		
最大标定功率和转速时的最大燃油消耗量—kg/h(lb/h).....		康明斯PT直喷系统
燃油泵进油口的最大供油阻力		
滤清器在清洁状态最大供油流量时—kPa(in.Hg).....	13.55	(4)
滤清器在脏的状态最大供油流量时—kPa(in.Hg).....	27.09	(8)
额定功率和转速时的最大供油量—kg/h(lb/h).....		
允许的喷油器最大燃油回油阻		
带单向阀—kPa(in.Hg).....	22.0	(6.5)
不带单向阀—kPa(in.Hg).....	8.5	(2.5)
允许的最小燃油箱通气能力—L/h (ft <sup>3</sup> /h) .....	425	(15)
[在背压为 8.4kPa (2.5in.Hg) 或更低的背压时]		
<b>电气及启动系统</b>		
启动马达(重型, 正极)—Volt.....		24
电瓶充电系统, 负极接地—A.....		35
起动电路允许的最大电阻—Ω.....		0.002
推荐的电瓶最小容量		
·在10°C (50°F) 或以上时—0°F CCA.....		1200
·在0°C至10°C (32°F至50°F) 或以上时—0°F CCA.....		1280
·在-18°C至0°C (0°F至32°F) 或以上时—0°F CCA.....		1800



# 重庆康明斯发动机有限公司

## 数据单

### 性能数据

在任意恒定负荷下的转速稳定性—%.....±0.25

所有的数据均是基于发动机带燃油泵、水泵、机油泵、空滤器和消声器运转时获得的，但不包括交流发电机、空压机、风扇、选用设备和驱动件。所有的数据都是基于SAE J1349标准规定的条件——海拔90m（300ft.），大气压力100kPa（29.61in.Hg），进气温度25°C（77°F），水蒸汽压力1.0kPa（0.30in.Hg），使用标准2#柴油或符合ASTM D2的柴油。数据随时可能更改，恕不另行通知。

	备用功率		常用功率	
	60 Hz	50 Hz	60 Hz	50 Hz
转速r/min.....		1500		1500
怠速r/min.....		725-775		725-775
输出总功率kW(BHP).....		970(1300)		881(1180)
平均有效压力kPa(PSI).....		2045(297)		1857(269)
活塞平均速度m/s(ft/min).....		7.9(1555)		7.9(1555)
摩擦功率kW(BHP).....		86(115)		86(115)
进气流量L/s(CFM).....		1213(2570)		1140(2415)
排气流量 L/s(CFM).....		3306(7005)		3051(6465)
排气温度 °C(°F).....		513(955)		499(930)
对环境的散热量kW(BTU/min).....		138(7820)		125(7135)
对冷却液的散热量 kW(BTU/min).....		594(33800)		539(30680)
发动机冷却液流量 L/s(U.S.GPM)阻力为27.5kpa时.....		19.6(310)		19.6(310)



**CHONGQING CUMMINS ENGINE COMPANY LTD.**  
**ENGINE DATA SHEET**

**ENGINE MODEL:** KTA38-G5

<b>STAND_BY:</b>	<b>970 kW</b>	<b>@1500r/min</b>
	<b>1300 BHP</b>	
<b>PRIME:</b>	<b>881 kW</b>	<b>@1500r/min</b>
	<b>1180 BHP</b>	

**REFERENCE INFORMATION:**

CONFIGURATION..... D233031DX02

CPL NUMBER ..... 1543

PERFORMANCE CURVE NUMBER..... FR-6141

## **GENERAL ENGINE DATA**

Type.....	4 Cycle , 60° Vee , 12 Cylind	
Aspiration.....	Turbocharged , Aftercooled	
Bore—in.(mm)×stroke—in.(mm).....	6.25×6.25	(159×159)
Displacement—in <sup>3</sup> (L).....	2300	(38)
Compression Ratio.....	13.9:1	
Dry Weight		
Fan Hub to Flywheel Engine —lb(kg).....	8200	(3719)
Radiator Cooled Engine —lb(kg).....	9625	(4366)
Wet Weight		
Fan Hub to Flywheel Engine —lb(kg).....	8700	(3946)
Radiator Cooled Engine —lb(kg).....	11030	(5003)
Moment of Inertia of Rotating Components (Excluding Flywheel) —lb <sub>m</sub> ·ft <sup>2</sup> (kg·m <sup>2</sup> ).....	94	(3.96)
·With FW 6001 Flywheel     —kg·m <sup>2</sup> (lb <sub>m</sub> ·ft <sup>2</sup> ).....	10.45	(248.0)
·With FW 6011 Flywheel     —kg·m <sup>2</sup> (lb <sub>m</sub> ·ft <sup>2</sup> ).....	20.78	(493.0)
C.G. Distance From Front Face of Block—in(mm).....	31.5	(801)
C.G. Distance Above Crank Centerline—in(mm).....	11	(279)
Maximum Allowable Bending Moment at Rear Face of Block —N·m(lb.ft).....	2000	(907)
Firing Order.....	1R-6L-5R-2L-3R-4L-6R-1L- 2R-5L-4R-3L	

## **ENGINE MOUNTING**

Moment of Inertia About Roll Axis —lb.ft<sup>2</sup>(kg•m<sup>2</sup>).....

## **EXHAUST SYSTEM**

Maximum Allowable Back Pressure (1500/1800 rpm) —in.Hg(kPa).....	2.3/3	(7.8/10.2)
Maximum Allowable Back Pressure —in.Hg(kPa).....	3	(10)
Exhaust Pipe Size Normally Acceptable —in(mm).....	6	(152)

#### AIR INDUCTION SYSTEM

## Maximum Allowable Intake Air Restriction With Heavy Duty Air Cleaner

Clean Element —in.H <sub>2</sub> O(kPa).....	15	(3.73)
Clean Element —in.H <sub>2</sub> O(kPa).....	15	(3.73)
Intake Air Alarm Temperature (1500/1800 rpm)—°C(°F)	82	(180)

#### **COOLING SYSTEM**

Coolant Capacity		
After-cooler Only —U.S.Gal(L).....	6	(23)
With heat exchanger HX 6076 ( With out explantion tank) —U.S.Gal(L).....	53	(199)
With explantion tank & LTA —U.S.Gal(L)	30	(112)

WITH EXPLANATION OF

## Math Engine

Maximum Allowable Air Friction Across Radiator —in. $H_2O$ (kPa)..... 0.5

(408.8)

CHONGQING COMMUNIST  
CHONGQING CHINA

All Data is Subject to Change Without Notice- consult the following Cummins intranet site for most recent data:  
<http://www.ccec-easia.cummins.com/~Publish/design/>



# CHONGQING CUMMINS ENGINE COMPANY LTD.

## ENGINE DATA SHEET

Page 2 of 3

Maximum Raw Water Inlet Pressure @ Heat Exchanger HX 6076 —PSI(kPa).....	50	(344.7)
Maximum Allowable Top Tank Temperature (Stand_by/Prime) —°F( °C).....	220/212 (104/100)	
Standard Thermostat (modulating) Range—°F( °C).....	180-200 (82-93)	
Maximum Allowable Coolant Temperature —°F( °C).....	205 (96.1)	
Minimum Coolant Makeup Capacity —U.S.Gal(L).....	6.3 (23.8)	
Maximum Raw water Inlet Friction —PSI(kPa).....	10 (254.0)	
Maximum Raw water Pump Suction —ft.(m).....	15 (4.6)	
Maximum Raw water Pump head —ft.(m).....	67 (20.5)	
Minimum Allowable Fill Rate —U.S.GPM(L/min).....	5 (18.9)	
Maximum Allowable Initial Fill Time —min.....	5	
Minimum Allowable Coolant Expansion Space —% of System Capacity.....	5	
Maximum Allowable Inlet Coolant Temperature at Limited situation (Stand_by/Prime) —°	160/150	(71/66)

### LUBRICATION SYSTEM

#### Oil Pressure

@ Idle —PSI(kPa).....	20	(138)
@ Rated Speed —PSI(kPa).....	45-65	(310-448)

Oil Flow at Rated Speed —U.S.GPM(L/min).....	124	(469.4)
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Maximum Allowable Oil Temperature —°F( °C).....	250	(121.0)
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#### By-Pass Filter Capacity

Spin-on Cartridge Type —U.S.Gal(L).....	2 X 0.7	(2 X 2.6)
Replaceable Element Type —U.S.Gal(L) .....	2 X 2.9	(2 X 11.0)

#### Oil Pan Capacity (Option OP6024)

High —U.S.Gal(L).....	40.0	(151.4)
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Total System Capacity (Excluding By-Pass Filter) —U.S.Gal(L).....	45.0	(170.3)
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Total System Capacity (Excluding By-Pass Filter) —U.S.Gal(L).....	35.7	(135.1)
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#### Angularity of Standard Oil Pan ( Option OP6

Front Down.....	30°
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### FUEL SYSTEM

Fuel Injection System.....	Cummins PT
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#### Maximum Fuel Consumption at Maximum Rated Output and Speed —lb/h(kg/h).....

#### Maximum allowable Restriction to PT Fuel Pump

With Clean Fuel Filter —in.Hg(kPa).....	4	(13.55)
With Dirty Fuel Filter —in.Hg(kPa).....	10	(33.86)

#### Maximum Fuel Supply at Rated Power and Speed —lb/h(kg/h).....

#### Maximum Allowable Injector Return Line Restriction

With Check Valves —in.Hg(kPa).....	7	(22)
Less Check Valves —in.Hg(kPa).....	3	(8)

Minimum Allowable Fuel Tank Vent Capability —ft <sup>3</sup> /h (L/h) .....	15	(425)
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(With 2.5 in. Hg (63 mm Hg) or Less Back Pressure)

Starter (Heavy, Anode)—Volt.....	24
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Battery Recharge System,Negative ground—A.....	35
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Maximum Allowable Resistance of Starting Circuit—Ω.....	0.002
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#### Minimum Recommended Battery Capacity

·Cold Soak at 50°F(10°C) or Above—0°F CCA.....	1200
·Cold Soak at 32~50°F(0~10°C) or Above—0°F CCA.....	1280
·Cold Soak at 0~32°F(-18~0°C) or Above—0°F CCA.....	1800

CHONGQING CUMMINS ENGINE COMPANY LTD.

CHONGQING, CHINA

All Data is Subject to Change Without Notice- consult the following Cummins intranet site for most recent data:  
<http://www.ccec.easia.cummins.com - /Publish/design/>



# CHONGQING CUMMINS ENGINE COMPANY LTD.

## ENGINE DATA SHEET

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### PERFORMANCE DATA

All data is based on the engine operating with fuel system, water pump, lubricating oil pump, air cleaner, and muffler, not included are alternator, compressor, fan, optional equipment and driven components. Data represents gross engine performance capabilities obtained and corrected in accordance with SAE J1349 conditions to 29.61 in Hg(100 kPa) barometric pressure[300ft. (90 m) altitude], 77°F (25 °C) inlet air temperature, and 0.30 in. Hg (1kPa) water vapor pressure with No. 2 diesel fuel or a fuel corresponding to ASTM D2. All data is subject to change without notice.

	STAND_BY		PRIME	
	60 Hz	50 Hz	60 Hz	50 Hz
Engine Speed r/min.....		1500		1500
Idle Speed r/min.....		725-775		725-775
Gross Power Output BHP(kW).....		1300(970)		1180(881)
Brake Mean Effective Pressure PSI(kPa).....		297(2045)		269(1857)
Piston Speed ft/min(m/s).....		1555(7.9)		1555(7.9)
Friction Horsepower BHP(kW).....		115(86)		115(86)
Intake Air Flow CFM( L/s).....		2570(1213)		2415(1140)
Exhaust Gas Flow CFM( L/s).....		7005(3306)		6465(3051)
Exhaust Gas Temperature °F (°C).....		955(513)		930(499)
Heat Rejection to Ambient BTU/min(kW).....		7820(138)		7135(125)
Heat Rejection to Coolant BTU/min(kW).....		33800(594)		30680(539)
Engine Water Flow L/s(U.S.GPM) @ 4psi.....		310(19.6)		310(19.6)

### Change Log

Date	Author	Change Description
2013/6/25	Jiang Li	Release
2013/9/17	Jiang Li	Added continuous power rating