

MODELOS DE GERADORES

C135D6

VER ESPECIFICAÇÕES

PEDIR ORÇAMENTO



Frequência
60 Hz



Certificado para
Primário
Reserva
Continua

kW	kVA
123	153
135	169
77	96



Disponibilidade do produto
África Oriente Médio, Ásia-Pacífico, Índia, América Latina



Frequência
60

Níveis de emissão
U.E., aplicativo móvel
U.E., aplicação estacionária
EPA, aplicação não rodoviário (portátil)
EPA, aplicação de emergência estacionária
EPA, aplicação estacionária não emergencial

Tipo de combustível
Diesel

Potência nominal
Primário
Reserva

Tipo de produto
Diesel de 60 Hz

Tipo de gabinete
Atenuação de som e proteção contra intempéries
Não alojado

kW/kVA
25 a 200 kW/kVA

Primário
123 kW
153 kVA

Reserva
135 kW
169 kVA

Continua
77 kW
96 kVA



Modelos relacionados

[VER TUDO](#) →



C145D6

Frequência (Hz)	60
Tipo de combustível	Diesel
Reserva	145 kW 181 kVA

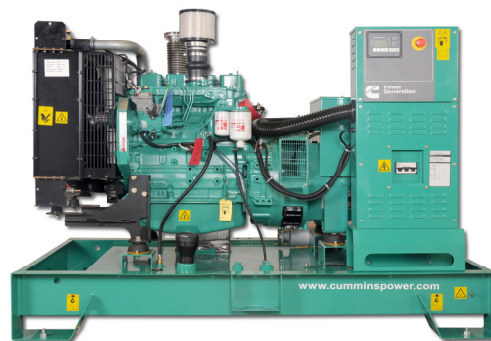
[VER DETALHES](#)

Entre em contato com vendas ou encontre um local


Pedir orçamento


Encontrar um revendedor

Grupos Geradores acionados por Motor Diesel



C135D6

Nossa energia trabalhando por você.™



Características do Grupo Gerador

Motor Diesel Cummins arrefecido a água.
Filtro de óleo e de combustível separador de água e válvula de dreno do óleo lubrificante incorporados.
Motor de partida elétrico e alternador em 12 Vcc.
Governador mecânico.
Filtro de ar para trabalhos normais.
Alternador com enrolamento único.
Bateria montada na base do grupo gerador.
Motor, alternador, chassi e painel de comando na cor: Verde Munsell Jade.
Radiador e Proteção na cor: Preto.
Embalagem em filme plástico retrátil.
Manual de Operação e Manutenção.
Etiqueta Padrão.

Opcional

PMG (Gerador Imã Permanente)

Fornecer energia ao regulador eletrônico de tensão independente da tensão de saída do alternador.
Permite com isso melhor desempenho na partida de motores e melhor efeito de harmônicas induzidas por cargas não lineares

Garantia Standard

Garantia de 2 anos (Standby) ou 1 ano (Prime)

Opções de Escapamento

Silencioso - Industrial 9 dB(A)
Silencioso - Hospitalar 29 dB(A)

Garantia

Garantia estendida de 5 anos (Standby).
Garantia estendida de 2 anos ou 6000 horas (Prime)

Performance do Grupo Gerador

Regulação de Tensão

Tensão de saída com variação de $\pm 1,0\%$ será mantida nas seguintes condições:

1. Fator de potência entre 0,8 e 1,0.
2. Com qualquer nível de carga entre vazio e plena carga.
3. Com queda de rotação de até 4,5%.

Regulagem de Frequência

Isócrona sob cargas variáveis entre vazio e plena carga quando o governador eletrônico é incorporado.

Variação Aleatória de Frequência

Não deve exceder a $\pm 0,25\%$ de seu valor nominal para cargas constantes entre vazio e plena carga.

Conforme Normas

To BS4999/5000 pt 99,
VDE 0530, UTE5100,
NEMA MG1-22, CEMA,
IEC 34, CSA A22.2,
AS1359, BSS 5514,
ISO 3046 e ISO 8528

Opções do Grupo Gerador

Opcionais

Pré-Aquecimento.
Carregador de Baterias.
Chave de Transferência - GTEC.
Carenagem Silenciada.
Carenagem Super Silenciada.
Tanque externo

Especificações do Alternador

Tipo

Rolamento único, sem escovas, campo rotativo, 4 pólos, tela de proteção a prova de gotejamento.
Classe de Isolação H, Grau de Proteção IP 23
Impregnação a vácuo.
Sistema de Arrefecimento IC 01.
Enrolamento de amortecimento totalmente interconectado.
Excitatriz de CA e unidade retificadora rotativa.
Enrolamento do estator com revestimento Epoxy.
Rotor e excitatriz impregnados com resina de poliéster adequada ao clima tropical, resistente a óleo e ácidos.
Rotor balanceado dinamicamente BS 5625 grau 2,5.
Rotor enrolado em camadas e com cunha mecânica.
Rolamento blindado, com lubrificante permanente.

Excitatriz

Submersão tripla em verniz de poliéster resistente a óleo e ácidos e revestido com verniz anti-rasteio.

Enrolamento

Enrolamento principal com passo de 2/3 para minimizar os harmônicos e melhorar a capacidade de paralelismo.
Acoplamento do motor/alternador garante alinhamento perfeito.

Conexões de Tensão

480/277 V	380/220 V	220/127 V
440/254 V	240/139 V	208/120 V
416/240 V		

Consumo de Combustível

Potencia Nominal	Standby				Prime			
	170 kVA		136 kW		157 kVA		126 kW	
Carga Aplicada	Full	3/4	1/2	1/4	Full	3/4	1/2	1/4
Consumo (Litros / Hora)	40	36	27	20	36	27	20	10

Observação:

O motor acima foi testado de acordo com a ISO-3046 nas seguintes condições abaixo:

Pressão Barométrica = 100 kPa (29.53 in Hg)

Altitude acima do nível do mar = 110 m (316 ft)

Temperatura ambiente = 25° C (77° F)

Umidade relativa = 30%

Dados Técnicos

Modelo	C135D6	Alternador - Regulação de voltagem	$\pm 1,0\%$
Potência em Standby	170 kVA / 136 kW	Alternador - Classe de isolamento	H
Potência em Prime	157 kVA / 126 kW	Grau de Proteção	IP 23
Fabricante do Motor	Cummins	Consumo de Combustível (Standby)	40 l/h
Modelo do Motor	6BTA 5.9-G3	Consumo de Combustível (Prime)	36 l/h
Cilindros	6 cilindros	Capacidade de óleo lubrificante	16,4 l
Construção do motor	em linha	Capacidade de líquido de arrefecimento (somente o motor)	9,9 litros
Regulador de Velocidade/Classe	Mecânico	Capacidade de líquido de arrefecimento (motor + radiador)	30 litros
Aspiração e pós-arrefecimento	Turbinado	Temperatura de escape (Prime)	508°C
Diâmetro e Curso	102 mm x 120 mm	Vazão de gases de escape (Prime)	447 l/s
Taxa de Compressão	16,5 : 1	Contra pressão máxima de escape	76 mm Hg
Cilindrada	5,88 litros	Vazão de ar do radiador	5,43 m³/s
Arranque / Min °C	Não Auxiliada / -12°C	Consumo de ar para combustão	181 l/s
Capacidade da Bateria	100 A/h	Mínima abert. de entrada de ar na sala	0,7 m²
Potência Bruta do Motor - Standby	154 kWm	Mínima abert. de saída de ar na sala	0,5 m²
Potência Bruta do Motor - Prime	140 kWm	Calor irradiado pelo motor (Prime)	25,3 kWm
Rotação	1800 rpm	Capacidade do tanque da base	250 litros

STANDBY POWER

Potência de emergência (standby) é a potência máxima que um grupo gerador é capaz de fornecer, para cargas variáveis, durante o período de interrupção do fornecimento de energia da concessionária, por um período de até 200 h por ano, conforme ISO8528.

PRIME POWER

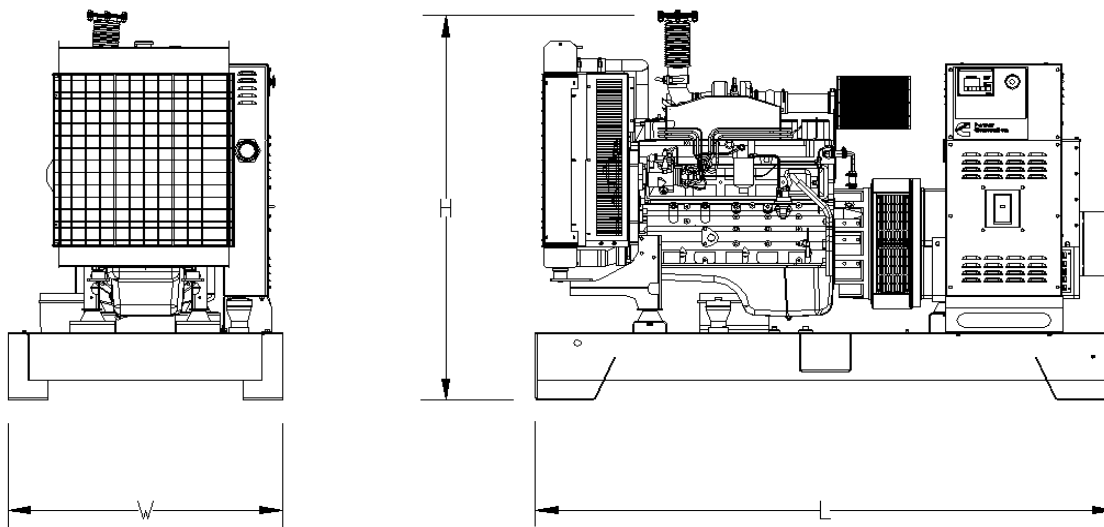
Prime power está disponível para um número ilimitado de horas anuais sob condições de carga variável, de acordo com ISO8528-1. É permitida uma capacidade de sobrecarga de 10% 1 hora a cada 12 horas de operação, de acordo com ISO 3046-1.

Todas as potências são baseadas nas seguintes condições de referência:

- Temperatura ambiente: 27°C

- Altitude acima do nível do mar: 150 metros

- Umidade relativa: 60%



Dimensões e Pesos

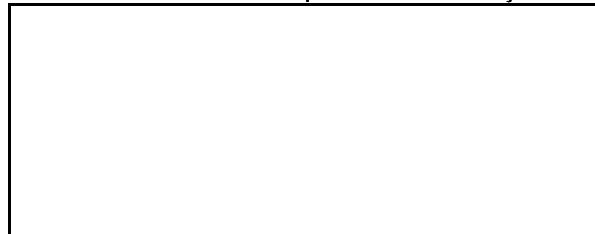
Grupo Gerador	Comprimento (mm) L	Largura (mm) W	Altura (mm) H	Grupo Gerador Seco (kg)	Grupo Gerador Úmido (kg)
Aberto	2220	1050	1572	1259	1300
Carenagem - F190	3145	1090	1865	1672	1713
Carenagem - F191	3660	1050	2135	2345	2386



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www.cumminspower.com.br

the
Power
of One

Consulte seu distribuidor para maiores informações



QUIET DIESEL™ SERIES OPERATION

Maintenance and Parts

PRE-START CHECKS

Before the first start of the day and after every eight hours of operation:

1. Check for proper oil and coolant levels.
2. Check for fuel, coolant and water leaks, mechanical damage, loose parts, damaged exhaust hose, loose or corroded battery connections, clogged sea water strainer, and CO monitors that don't work. Service as necessary.
3. Check for swimmers that might be exposed to the engine exhaust.
4. Turn off air conditioners and other large appliances.

PRIMING THE FUEL SYSTEM

If the generator ran out of fuel, push the control switch to **STOP (Prime)** and hold for at least 30 seconds.

STARTING THE GENERATOR

1. Push and hold the control switch at START (Pre-heat) until the generator starts. The amber status lamp on the control switch will blink rapidly.* The amber lamp will go out and the green run lamp on the switch will light after the starter has disconnected and the engine is up to speed. (Depending on how cold the engine is, preheat can take as long as 15 seconds before cranking starts.)
2. For longer engine life, let the engine warm up for two minutes before turning on air conditioners and other large appliances.
3. Check for water, coolant, fuel and exhaust leaks. Stop the generator immediately if there is a leak.
⚠ WARNING Fuel and exhaust leaks can lead to severe personal injury or death. Shut down the generator immediately. Repair fuel leaks immediately. Do not run the generator until fuel and exhaust leaks have been repaired.
4. **If the generator fails to start**, cranking will discontinue in 20 to 60 seconds, depending on how cold the engine is, and the amber status lamp will blink Shutdown Code No. 4. See *Troubleshooting* (Operator's Manual) if the

generator does not start after two or three tries.

⚠ CAUTION Do not continue cranking and risk burning out the starter or flooding the engine (exhaust flow during cranking is too low to expel water from the exhaust system). Find out why the generator does not start and repair as necessary.

5. **If the generator shuts down**, the amber status lamp will blink a shutdown code. See SHUTDOWN CODES below.

STOPPING THE GENERATOR

Turn off air conditioners and other large appliances and let the generator run for two minutes to cool down. Then touch the Control Switch to STOP (Prime).

SHUTDOWN CODES

The amber status lamp will blink if the generator shuts down. It will blink 1, 2, 3, 4, 5 or 7 times, pause, and then repeat the blinking. **The number of blinks is the shutdown code.** Blinking continues for five minutes and stops. To restore blinking press the control switch to **STOP (Prime)** until the amber lamp comes on (3 to 4 seconds). Then press **STOP (Prime)** three times to restore blinking.

- **One blink** indicates shutdown due to high engine temperature
- **Two blinks** indicate shutdown due to low oil pressure
- **Three blinks** indicate shutdown that may require service. See *Troubleshooting* in the Operator's Manual.
- **Four blinks** indicates shutdown due to a failure to start within the time allowed for cranking.
- **Five blinks** indicate shutdown because carbon monoxide was detected.
- **Seven blinks** indicate shutdown due to a loss of raw water flow for engine and exhaust cooling.

See *Troubleshooting* in the Operator's Manual for more information.

CUMMINS ONAN DIGITAL DISPLAY

See the generator Operator's Manual for details.

*The green run lamp and gauges will also flash momentarily.

PERIODIC MAINTENANCE SCHEDULE

	MDKBH, MDKBJ, MDKBW	MDKB & MDKD MODELS K, L, M, N, P, R, V	MDKB & MDKD MODELS S, T, U	MDDCX ALL MODELS
General Inspection ¹	Every day, 8 Hrs	Every day, 8 Hrs	Every day, 8 Hrs	Every day, 8 Hrs
Check Battery ²				
Check V-Belt Tension ³				
Drain Water from Fuel Filters (Primary or Secondary)	Monthly, 100 Hrs	Monthly, 100 Hrs	Monthly, 100 Hrs	Monthly, 100 Hrs
Check Siphon Break				
Change Oil/ Oil Filter	First 50 Hrs – Yearly, 200 Hrs	First 50 Hrs – Yearly, 200 Hrs	First 50 Hrs – Yearly, 350 Hrs	First 50 Hrs – Yearly, 350 Hrs
Check Brushes & Slip Rings ⁴	Yearly, 200 Hrs	—	—	—
Change Fuel Filter	Yearly, 500 Hrs	Yearly, 500 Hrs	Yearly, 500 Hrs	Yearly, 350 Hrs
Replace Pump Impeller				
Replace Zinc Anode	—			Yearly, 500 Hrs
Adjust Valve Lash ⁴	800 Hours	800 Hours	1000 Hours	2 Yrs, 2100 Hrs
Change Coolant, Pressure Cap & Thermostat	2 Yrs	2 Yrs	2 Yrs	5 Yrs, 2000 Hrs
Change Generator Bearing(s) & Drive Belt ⁴	5 Yrs, 2000 Hrs	5 Yrs, 2000 Hrs	5 Yrs, 2000 Hrs	Yearly, 700 Hrs
Check Air Filter	—	—	—	

1. Includes Oil Level, Coolant Level, Fuel System, Exhaust System, Battery, and Sea Water Strainer Checks
2. See battery manufacturer recommendations
3. Check for slippage, cracking and wear (pump drive belt only)
4. Must be performed by a trained and experienced mechanic (Cummins Onan Distributor or Dealer) in accordance with the engine and generator service manuals

MAINTENANCE PARTS

	MDKBH	MDKBJ, MDKBW	MDKB & MDKD MODELS K, L, M, N	MDKB & MDKD MODELS P, R, V	MDKB & MDKD MODELS S, T, U	MDDC MODELS A, B, C, F, G, K, L, M, N	MDDC MODELS D, E, H, J, P, R
Oil Filter	185-7444	185-7444	185-5835	122-0810	122-0906	122-0885	122-0885
Fuel Filter	149-2106	A026K278	149-2106	149-2106	149-2804	149-2722 & 149-2723	149-2724 & 149-2725
Crankcase Breather	—	—	—	185-6721	123-2327	123-2246	123-2246
Pump Impeller	541-1524	132-0493	541-1519	541-1521	541-1316	132-0436	132-0436
12V Glow Plugs	185-5421	185-5421	333-0802	185-5990	333-0745	—	—
24V Glow Plugs	—	—	185-7107	185-6725	333-0746	—	—
Zinc Pencil	—	—	130-4434	130-4434	130-4434	130-6228	130-6228
V-Belt	511-0197	511-0206	185-6934	Note 2	511-0237	511-0215	511-0215
Oil Filter Wrench	420-0577	420-0577	—	—	—	—	—
Air Filter	—	—	—	—	—	140-3752	140-3752
Cruise Kit	100-3748-08	A029E631	100-3478-52	Note 3	100-3478-60	—	—

1. Number of glow plugs: 2-MDKBH; 3-MDKBL & MDKBK; 4-MDKBM, MDKEN, MDKBR, MDKBT, MDKBU and MDKBV
2. Negative ground (Option #B200 or B201); 511-0201 (MDKBP, MDKBR, and MDKBV); isolated ground systems (Option #B379 or B380); 511-0211
3. Negative ground (Option #B200 or B201); 100-3478-54 (MDKBP, MDKBR, MDKBV); isolated ground systems (Option #B379 or B380); 100-3478-55

ENGINE FLUID CAPACITIES

	MDKBH	MDKBJ, MDKBW	MDKB, MDKD MODELS K, L	MDKB, MDKD MODELS M, N	MDKB & MDKD MODELS P, R, V	MDKB & MDKD MODELS S, T, U	MDDC MODELS A, B, C, F, G, K, L, M, N	MDDC MODELS D, E, H, J, P, R
Oil	2.1L (2.2 Qt)	3.0L (3.2 Qt)	4.0L (4.2 Qt)	4.3L (4.5 Qt)	7.6L (8 Qt)	10.4L (11 Qt)	12.6L (13.3 Qt)	19.4L (20.5 Qt)
Coolant	2.1L (2.2 Qt)	3.1L (3.3 Qt)	4.0L (4.2 Qt)	5.0L (5.3 Qt)	7.6L (8 Qt)	13.7L (14.5 Qt)	14L (15 Qt)	30L (32 Qt)

Shipped with 15W40 engine oil and 50/50 water/ethylene glycol coolant
Contact your Cummins Onan Distributor or Dealer for more information. Cummins Power Generation, 1400 73rd Ave. NE, Minneapolis, MN 55432, USA, Phone 1-763-574-5000, Toll-free 1-800-888-6626, Fax 1-763-574-5298, Email www.cumminsonan.com/contact, www.cumminsonan.com, Cummins, Onan, and the "C" logo, "Performance you rely on" and Quiet Diesel are trademarks of registered trademarks of Cummins Inc. ©2013 Cummins Power Generation. All Rights Reserved.



Diesel generator set C80 D5

50 Hz



Made by Cummins®

Cummins commercial diesel generator sets integrate the universal design, production and testing standard of Cummins, providing fully reliable and integrated power generation systems with optimum performance for applications in Standby power, Prime Power and Continuous operation.

In accordance with the standard of ISO8528-2005 and GB/T2820-2009 AC Generator Sets Driven by Reciprocating Internal Combustion Engine.

Certified to ISO9001 and ISO9002 for generator set design and manufacture.

Cummins provides full quality assurance and is responsible for the warranty of generator sets including engine, alternator and control system.

National specialized service network ensures 24 hours after-sale service and the supply of parts and accessories.

Standard features of generator set

Engine: Cummins 6B series engine.

Type: Four-stroke, water cooled, turbocharged.

Structure: Cast steel crankshaft, connecting rod, cast iron cylinder block.

Cooling system: Built-in water circulating pump and thermostat improves working efficiency of engine.

Filter: Cummins Fleetguard series high-precision filter.

Alternator: Stamford UC series alternator.

Type: Revolving magnetic field, single bearing, 4 pole, brushless, drip proof structure, in accordance with GB755, BS5000, and IEC34-1.

Stator: Taper slot structure, 2/3 pitch windings, effectively suppressing waveform distortion of third harmonic current and output voltage under non-linear load.

Rotor: Flexible driving disc connected to engine directly, perfect damper winding reduces parallel oscillation.

Cooling system: Directly drive centrifugal blower fan.

Control system: PowerCommand® control system based on microprocessor.

Short-circuit protection: Schneider breaker, AmpSentry™ patent protection, PowerCommand controller.

Base frame: Bolted steel base frame with A/V mounting, complex seismic structure and bottom oil tank.

Radiator: Standard genset mounted radiator.

Standard accessories: Exhaust elbow, exhaust bellows, exhaust silencer, etc.

Genset model	Standby power		Prime power		Engine	Alternator	Control system
	kVA	kW	kVA	kW			
C80 D5	80	64	73	58	6BTA5.9-G1	UC1224F	PC1.1

230/400 VAC, 50 Hz, 0.8 PF (lagging) 3 phase

Generator set specifications

	Standby	Prime
Voltage regulation (no load to full load)	±1%	
Steady-state voltage variation	±1%	
Frequency regulation (no load to full load)	1.40%	
Steady-state frequency variation	±0.25%	
EMC compatibility	BS EN61000-6-4 /BS EN61000-6-2	
Fuel consumption, g/kw-h (L/hr) @ 100% load	210 (23.4)	208 (21.7)
Battery starting capacity, A/hr	100*2	
Total coolant capacity (with engine and water tank), L	34	
Bottom oil tank capacity, L	250	

Engine specifications

Model	6BT5.9-G1
Configuration	Cast iron, in-line, 6-cylinder
Displacement, L	5.9
Compression ratio	17.3:1
Aspiration	Turbocharged
Fuel system	Direct injection
Bore* stroke, mm	102*120
Rated speed, rpm	1500
Governor type	Mechanical
Starting voltage	24 V, negative ground
Battery charging alternator	24 V, 40 A
Cold starting current, CCA	400 (-12°C)
Lube oil capacity, L	16
Combustion air (Standby), m³/s	0.1
Coolant capacity, L	8
Maximum fuel flow, L/hr	30
Maximum fuel inlet resistance, mm Hg	102

Generator specifications

Protection class	IP23
Insulation system	Class H
Standard temperature rise	Standby, 150°C (at 40°C ambient temperature)
Exciting type	Self-exciting
AC waveform Total Harmonic Distortion (THDV)	<1.5% no load, <5% 3-phase balanced linear load
Telephone Influence Factor (TIF)	<50 (per NEMA MG1-22.43)
Telephone Harmonic Factor (THF)	<2%

Exhaust specifications

	Standby	Prime
Exhaust gas flow at rated load, L/S	271	252
Exhaust gas temperature, °C	510	480
Maximum exhaust backpressure, kPa	10	

Cooling system specifications

Radiator ambient design, °C	50
Minimum air inlet (outlet) area, m²	0.87 (0.7)
Radiator tank capacity, L	26
Radiator cooling air flow (Standby), m³/s	3.8
Total heat rejection, kW	21.6
Maximum cooling air flow static resistance, Pa	124.5

The PowerCommand 1.1

Generator set control

- The PowerCommand 1.1 control is a microprocessor based generator set monitoring control system. The control provides a simple operator interface to the generator set, digital voltage regulation, digital engine speed governing, start/stop control, and protective functions.
- The PowerCommand 1.1 generator set control is suitable for use on a wide range of generator sets in non-parallel applications.
- The PowerCommand control can be configured for any frequency, voltage and power configuration from 120 to 600 VAC for 50 Hz or 60 Hz operation.
- Power for the control is derived from the generator set starting batteries. The control functions over a voltage range from 8 VDC to 35 VDC.

Major features

- **12 or 24 VDC battery operation**
- **Digital voltage regulation full wave rectified single phase (Line to Line) sensing.**
- **Engine starting includes relay drivers for start, Fuel Shut Off (FSO), and glow plug.**
- **Configurable Inputs and Outputs.** Two discrete inputs and two dry contact relay outputs.
- **Generator Set Monitoring:** Displays status of all critical engine & alternator generator set functions.
- **Smart Starting Control System:** Integrated fuel ramping to limit black smoke & frequency overshoot.
- **Advanced Serviceability using INPOWER™.**

Control system

Includes all functions to locally or remotely start and stop, and protect the generator set.

Control Switch - RUN/OFF/AUTO

- **OFF mode** - the generator set is shut down & cannot be started; as well as resets faults.
- **RUN mode** - the generator set will execute its start sequence.
- **AUTO mode** - the generator set can be started with a start signal from a remote device.

Status indications

The control has a lamp driver for external fault/status indication.

Functions include:

- The lamp flashes during preheat (when used) and while the generator set is starting.
- **READY TO LOAD** - flashing until the set is at rated voltage and frequency, then on continuously.
- Fault conditions are displayed by flashing a two-digit fault code number.

LED Indicating Lamps - includes LED indicating lamps for the following functions:

- Not in auto
- Remote start
- Warning
- Shutdown
- Auto
- Run

Remote emergency stop switch input. Immediate shut down of the generator set on operation.

Base Engine Protection -

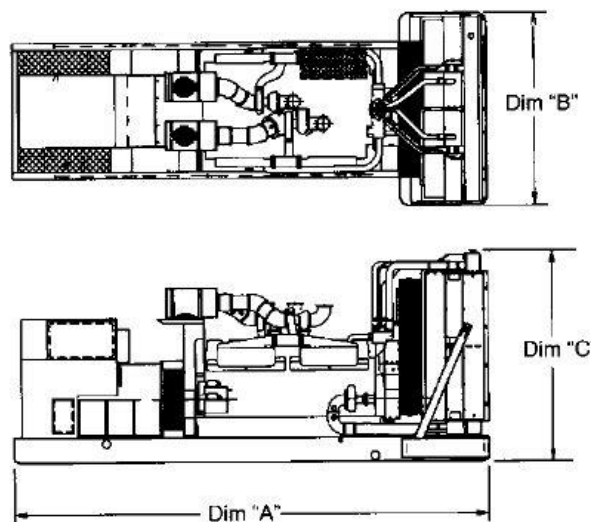
- Low oil pressure shutdown
- High engine temperature shutdown
- Underspeed/sensor fail shutdown
- Fail to start
- Battery charging alternator fail warning



Standard generator set

Model	Dim 'A' (mm)	Dim 'B' (mm)	Dim 'C' (mm)	Weight* dry weight (kg)
C80 D5	2268	1050	1553	1392

Standard outline drawings of generator set



The outlines are for illustrative e purposes only, not used for installation design.

Please refer to genset outline drawing for exact representation of this model for installation design.

Ratings definitions:

Emergency Standby Power (ESP):

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with GB.T2820/ISO 8528. The effective oil limited power is in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):

Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with GB.T2820/ISO 8528.

Prime Power (PRP):

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with GB.T2820/ISO 8528. A 10% overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with GB.T2820/ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

For more information contact your local Cummins distributor
or visit power.cummins.com

Our energy working for you.™

