



MODEL: TD200



Ratings Range — 60 Hertz Operation

Standby:	kW	200
	kVA	250
Prime:	kW	180
	kVA	225

FEATURES

- Single source responsibility for the generator set and accessories.
- Prototype and production tested to insure one step load acceptance per NFPA 110.
- Two year limited warranty on generator sets and accessories. Extended warranties also available.
- Unit conforms to CSA, NEMA, EGSA, ANSI and other standards.
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field generator with class H insulation.
- Heavy duty steel base with integral vibration isolators.
- EPA Tier 3 Certified Engine.
- Tier 3 EPA-Certified for Stationary Emergency Applications.

GEN SET RATINGS

Genset Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	130° Rise Standby Rating		105° Rise Prime Rating	
					kW / kVA	Amps	kW / kVA	Amps
TD200	431CSL6206	277/480	3	60	200/250	301	180/225	271
		139/240	3	60	200/250	601	180/225	541
		254/440	3	60	200/250	328	180/225	295
		127/220	3	60	200/250	656	180/225	590
		240/416	3	60	200/250	347	180/225	313
		120/208	3	60	200/250	693	180/225	625
		120/240	3	60	200/250	601	180/225	541
		219/380	3	60	191/239	363	172/215	326
	120/240	1	60	166/166	691	150/150	625	
	432PSL6228	120/240	1	60	200/200	833	180/180	750

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.
 STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271.
 PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS5514, AS2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.
 GENERAL GUIDELINES FOR DERATION: Altitude: Derate 0.5% per 100m (328 ft.) elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).



Application and Engineering Data

Basic Technical Data

Manufacturer	Cummins
Model	QSB7-G5 NR3
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Induction system	Turbocharged, charge air cooled
Compression ratio	17.2:1
Bore	4.21 in. (107 mm)
Stroke	4.88 in. (124 mm)
Cubic capacity	408 cu in. (6.69 L)
Direction of rotation	
Firing order	
Governor type	ECM, Isochronous 0.25%
Gross engine power	324 hp (242 kWb)
Electropak net engine power	
Brake mean effective pressure	349 psi (2404 kPa)
Engine coolant flow (against 5 psi (35 kPa) restriction)	
Cooling fan air flow (29 psi (200 kPa) external restriction)	569 cfm (269 L/sec)
Combustion air flow (at rated speed)	
Exhaust gas flow (max)	1549 cfm (739 L/sec)
Exhaust gas mass flow (max)	
Exhaust gas temperature in manifold (max)	988 °F (532 °C)
Boost pressure ratio	
Overall thermal efficiency (net)	N/A

Cooling System

Coolant	
Total System Capacity	2.7 gal (10.2 L)
With radiator	N/A
Without radiator	2.7 gal (10.2 L)
Coolant Pump Drive	
Coolant pump drive ratio	
Maximum top tank temperature	233° F (112° C)
Temperature rise across engine (rating dependent)	45° F (25° C)
Thermostat operation range	175-203° F (79-95 °C)
Recommended coolant:	

Exhaust System

Maximum back pressure	3 Hg (10.2 kPa)
Exhaust outlet size	

Lubrication System

Lubricating oil capacity total system	4.4 gal (16.5 L)
Maximum sump capacity	4.6 gal (17.4 L)
Minimum sump capacity	4.0 gal (15.1 L)
Maximum engine operating angles (front up, front down, right side or left side)	

Lubricating Oil Pressure

Oil Temperature (continuous operation)	280 °F (138 °C)
Oil Temperature (maximum intermittent operation)	

Electrical System

Type	12/24 volt negative earth
Alternator type	
Alternator Voltage	12/24V
Alternator Output	70/100A
Starter motor type	
Starter motor voltage	12/24V
Starter motor power	
Minimum cranking speed	

Induction System

Maximum air intake restriction	
Clean filter	15 H ₂ O (3.7 kPa)
Dirty filter	25 H ₂ O (6.2 kPa)
Air filter type	

Duct allowance with 50% glycol

Fuel System

Type of injection	Direct
Fuel injection pump	Bosch HPCR
Fuel atomizer	Unit injector/ multi-hole

Fuel Lift Pump

Max flow through customer filter	27 gal/hr (103 L/hr)
Maximum suction head	20 kPa

Fuel Consumption

110% Load	17.05 gal/hr
100% Load	15.5 gal/hr
75% Load	11.625 gal/hr
50% Load	7.75 gal/hr

Generator Controller Options



- Dashboard Style LCD Panel
- NFPA 110
- SAE J1939 ECU Communications
- Load Share Synch Features
- Metering, Data Trending, Alarms
- Engine Status Indicators
- Fuel Consumption
- CanBus, ModBus
- Ethernet Communications
- Remote Contacts Form C, RS 232/485

- Internet Bridge Module
- Internet Connection & Web Browser
- Remote Access & Control
- IntelliMonitor Network Management
- SNMP, PC SCADA
- Site Overview & Statistic Settling
- Automatic Downloads, Report Writer
- Receive Emails or IM Text
- CAT 5e, RS232/485, RJ 45
- Ethernet or Dial Up Connection
- Fleet Scalability

Alternator Specifications

Manufacturer	Marathon	<ul style="list-style-type: none"> • NEMA MG1, IEEE, AND ANSI standards compliance for temperature and motor starting. • Sustained short-circuit current of the rated current for up to 10 seconds. • Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field. • Self-ventilated and dripproof construction. • Superior voltage waveform from a two-thirds pitch stator and skewed rotor. • Linkboards • Optimized Electrical Design • Enhanced Ventilation • Fully Guarded • Heavy Duty Bearings
Type	Ext. Voltage Regulated, Brushless	
Gen Frame	MAGNAPLUS	
Insulation	NEMA	
Material	Class H	
Temperature Rise	130 °C, Standby	
Hertz	60	
Phase	3	
RPM	1800	
Exciter	Rotating	
# Leads	12 Reconnectable or 4 Single Phase	
PF	0.8	
Ambient	40°C	
Coupling Single Bearing	Flexible	
Amortisseur Windings	Full	
Cooling Air Volume	250 CFM	
Peak Motor Starting	30% Voltage Dip, 370 skVA	
Voltage Regulation	1 Phase Sensing 1%	
no-load and full-load	Optional 3 Phase Sensing 1/2%	

STANDARD FEATURES

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack
- Battery Cables
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty
- Owners Manual

AVAILABLE ACCESSORIES

OPEN UNIT

- Narrow Skid Base
- Radiator Duct Flange
- Ship Loose Flex Exhaust
- Ship Loose Critical Silencer

ENCLOSED UNIT

- Wide Skid Base
- Standard Enclosure With Internal Silencer
- Sound Attenuated Enclosure With Silencer
- Load Center With Lights and GFI Receptacle
- Sub-Base Fuel Tank

CONTROLLER

- InteliLite Model IL-NT-MRS19
- Ethernet Bridge
- Remote Annunciator



MISCELLANEOUS

- Flexible Fuel Lines
- Coolant Drain Kit
- Water Jacket Heater
- Oil Pan Heater
- Generator Strip Heater
- Battery
- Battery Charger
- Pad Type Battery Heater
- Battery Heater Blanket with Thermostat
- Line Circuit Breaker

WARRANTY

- 3 Year Warranty
- 5 Year Warranty

APPROVALS AND LISTINGS

- UL Standard 2200

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H, in.: 102 in. x 40 in. x 68 in.
WEIGHT: 3500 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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