



Ratings Range — 60 Hertz Operation

Standby: kW 105-125

kVA 131-156

Throughout it's 80 year history, **Taylor Machine Works**, which manufactures heavy machinery for industries worldwide, has maintained a reputation of having unparalleled products with service to match. **Taylor Power Systems** is no different!

In the early 1980's Taylor Machine Works created Taylor Power Systems to distribute industrial engines and manufacture generator sets offering diesel powered 9 kW to 3250 kW and gaseous powered 30 kW to 425 kW. Taylor Power Systems provides quality standby and prime generator sets in stationary or mobile configurations for a wide variety of applications for example the Healthcare and Telecommunications Industries, Public Utilities, Federal, State and Local Government agencies, Educational and Financial Institutions as well as Agricultural.

Taylor Power Systems is your 21st Century Power Source!

- 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 Certified for Stationary Emergency Standby use only.

Genset Ratings

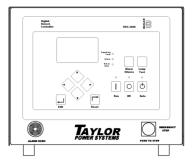
perature above 40°C (104°F).

Genset Model Number	Alternator	Voltage L-N / L-L	Phase	Hertz	Natural Gas 130º Rise Standby Rating		LP Gas 130º Rise Standby Rating	
					kW / kVA	Amps	kW / kVA	Amps
TG125	431CSL6202	277/480	3	60	125/156	188	105/131	158
		139/240	3	60	125/156	376	105/131	316
		127/220	3	60	125/156	410	105/131	344
		240/416	3	60	125/156	217	105/131	182
		120/208	3	60	125/156	434	105/131	364
		120/240	3	60	125/156	376	105/131	316
		220/380	3	60	125/156	237	105/131	199
		120/240	1	60	121/121	504	105/105	438

Application and Engineering Data

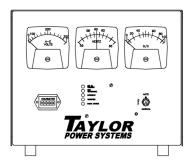
Engine		Fuel Consumption (Natural Gas)				
Manufacturer	PSI	At 100% of Power Rating: scfh (m³/min)	1511 (42.8)			
Model	8.8L	At 75% of Power Rating: scfh (m³/min)	1204 (34.1)			
Туре	Turbocharged & Charge Air Cooled	At 50% of Power Rating: scfh (m³/min)	890 (25.2)			
Arrangement	V-8	Fuel Communities (LDV)				
Displacement: in ³ (L)	537 (8.8)	Fuel Consumption (LP Vapor)				
Bore: in (mm)	4.35 (110)	At 100% of Power Rating: scfh (m³/min)	626 (17.7)			
Stroke: in (mm)	4.5 (114)	At 75% of Power Rating: scfh (m³/min)	473 (13.4)			
Compression Ratio	11.1:1	At 50% of Power Rating: scfh (m³/min)	334 (9.5)			
Rated RPM	1800					
Engine Governor	Electronic Isochronous	Cooling Radiator System				
Maximum Power: bhp (kWm)	190 (142)	Ambient Capacity of Radiator: °F (°C)	122 (50)			
Speed Regulation	± 0.5%	System Coolant Capacity: gal (L)	3.54 (13.4)			
		Water Pump Flow: gpm (L/min)	33 (125)			
Lubrication System		After Cooler Pump Flow: gpm (L/min)	N/A			
Total Oil System Capacity: gal (L)	2.38 (9)	Heat Rejection to Coolant: btu/min (kW)	4184 (73.5)			
Oil Filter(s): Qty	1	Heat Rejection to After Cooler: btu/min (kW)	N/A			
	•	ricat regestion to rate. Gooder, Stammir (kvv)	1071			
Electrical						
System Electric Volts: DC	12					
Battery Charging Alternator: Amps	70	Air Requirements Air Filter(s): Qty & Type 1, Dry				
Battery Recommended Cold	630 (1)	Engine Combustion Air Flow: scfm (m³/min)	244 (6.9)			
Cranking Amps: CCA Each		Air Flow Required for Radiator: scfm (m³/min)	10,800 (306)			
Fuel System			,			
Fuel Supply Connection	1.5 NPT	Std. Alternator Air Flow: scfm	700			
Size: in.		Engine Ambient Air Heat Rejection: btu/min (kW)	4,790 (84.2)			
Fuel Type	Pipeline Natural Gas	Max Restriction of Intake & Discharge Side of	0.5 (0.125)			
Total Gas Flow - Natural Gas	1511 (42.8)	Radiator: in. H2O (kPa)				
Total Gas Flow - LP Vapor	626 (17.1)	Max Restriction of Air Cleaner Intake (Clean):				
Gas Fuel Supply Pressure at	7-11 (1.74-2.74)	in. H2O (kPa)				
Generator Set Fuel Inlet: in. H2O (kPa)		*Air density = 0.0739 lbm/ft³ (1.184 kg/m³)				
, ,		Exhaust System				
Sound Level		Exhaust Gas Temperature (Stack): °F (°C)	1,200 (649)			
Open Unit (Isolated Exhaust)	N/A	, , , , ,				
3.2 FT (1 M) dBA		Exhaust Gas Volume at Stack Temperature: scfm (m³/min)	745 (21.1)			
TAYLOR		Maximum Allowable Back Pressure: in. H2O (kPa)	3 (10.2)			

Generator Controller Options



Digital Control Panel

- Integrated engine-genset control, protection, and metering
- Microprocessor allows for exact measurement, setpoint adjustment, and timing functions
- Front panel 3 position controls and indicators enable guick and simple operation
- Emergency stop push button and an Alarm Horn with silence button
- A wide temperature-range liquid crystal display (LCD) with backlighting
- SAE J1939 Engine ECU communications
- Multilingual capability
- Remote RS-485 communications for Optional RDP-110 Remote Annunciator
- 4 programmable contact inputs and 10 contact outputs (2 Adc rated)
- Modbus Communications with RS-485, Battery Backup for Real Time Clock, UL recognized, CSA certified, CE approved, HALT (Highly Accelerated Life Tests) tested, IP 54 Front Panel rating with integrated gasket. and NFPA 110 Level 1 Compatible.



Analog Controller

- Monitor AC voltage, AC frequency, percent of load and, run time/hour meter
- Overspeed, overcrank, low oil pressure, and high coolant temperature indicators
- Green LED indication of engine running
- Control switch for local and remote starting with 3 position run/off/remote switch
- Emergency by-pass key switch gauge
- · Mechanical oil pressure gauge
- Coolant temperature gauge

Alternator Specifications

Manufacturer Marathon

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 1280 CFM

Peak Motor Starting 30% Voltage Dip, 453 skVA @ 480V

Voltage Regulation 1 Phase Sensing 1%

no-load and full-load Optional 3 Phase Sensing 1/2%

- 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



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

CONTROLLER

- □ DGC2020 Control Panel
- □ DGC2020 Control Panel with Modem
- □ DGC2020 with Generator Protection
- □ DGC2020 with Modem and Generator Protection
- □ Flush or Surface Mount Remote Annunciator
- ☐ Remote Mount Break Glass E-Stop Switch
- Analog Control Panel

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
- Dual Fuel

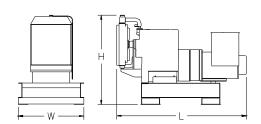
WARRANTY

- □ 3 Year Warranty
- □ 5 Year Warranty

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H, in.: 96 in x 46 in x 58 in WEIGHT: 2755 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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