

Ratings Range — 60 Hertz Operation

Standby: kW 20
 kVA 25
 Prime: kW 18
 kVA 22.5

Throughout its 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 2000 kW and gaseous powered 30 kW to 400 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.

- 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 4i Certified Engine.

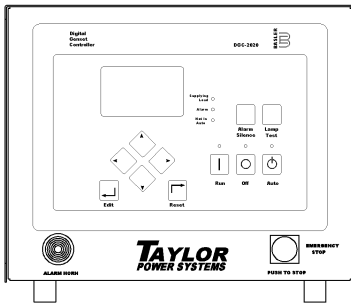
Taylor Power Systems is your 21st Century Power Source!

Genset 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
TM20	282CSL1505	277/480	3	60	20/25	30	18/22.5	27
		139/240	3	60	20/25	60	18/22.5	54
		254/440	3	60	20/25	33	18/22.5	30
		127/220	3	60	20/25	66	18/22.5	59
		240/416	3	60	20/25	35	18/22.5	31
		120/208	3	60	20/25	69	18/22.5	62
		120/240	3	60	20/25	60	18/22.5	54
		219/380	3	60	20/25	42	18/22.5	34
	120/240	1	60	17/17	75	16/16	67	
282PSL1716	120/240	1	60	20/20	83	18/18	75	

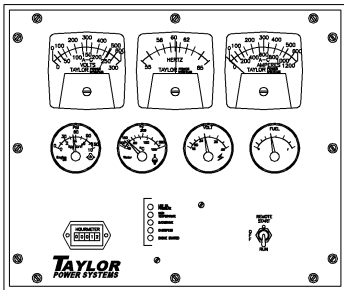
RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.
 STANDBY RATINGS: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There 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).

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 quick 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 A/c 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

- Analog instruments to monitor AC voltage, AC frequency, oil pressure, water temperature, battery voltage, fuel level, run time/hour meter and percent of load
- Red LED indication for overspeed, overcrank, low oil pressure, and high coolant temperature
- Green LED indication of engine running
- Control switch is provided for local and remote starting with 3 position run/off/remote switch
- Engine mounted emergency by-pass key switch

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	250 CFM
Peak Motor Starting	30% Voltage Dip, 60 skVA
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 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

- Trailer with integral fuel tank
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery
- Battery Rack
- Battery Cables
- Water jacket heater
- Flexible Fuel Lines
- High Ambient Unit Mounted Radiator
- Battery Charging Alternator
- Factory Paint
- Factory Test Prior to Shipment
- 2 Year Warranty

AVAILABLE ACCESSORIES

ENCLOSED UNIT

- Standard Enclosure With Internal Silencer
- Sound Attenuated Enclosure With Silencer

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

- Coolant Drain Kit
- Water Jacket Heater
- Oil Pan Heater
- Generator Strip Heater
- Battery Charger
- Pad Type Battery Heater
- Battery Heater Blanket with Thermostat

- Line Circuit Breaker
- Output Power Cable
- Y-YY-ZZ Multi-voltage selector switch
- 20 amp 120vac and GFI receptacle
- 20 amp 120vac GFI and 30 amp 120/240vac twist lock receptacle
- 30 amp 120vac RV receptacle
- Cam-Loks
- Diesel Locomotive cable
- Extenda-Lites
- Hydraulic Brake Kit
- Pintle ring hitch
- Spare tire kit
- Lug wrench
- Hydraulic Jack
- Single Point Lift

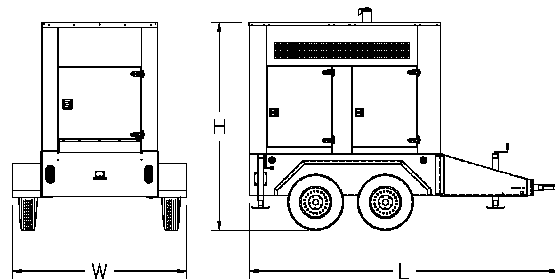
WARRANTY

- 3 Year Warranty
- 5 Year Warranty

WEIGHTS AND DIMENSIONS

OVERALL SIZE, L x W x H, in.: 125 in. x 72 in. x 69 in.
WEIGHT (DRY): 2550 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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