

TMC300V



EPA Certified Tier 3 Flex

OUTPUT POWER OPTIONS					125°C RISE STANDBY RATING		105°C RISE CONTINUOUS RATING		sKVA
Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	kW/kVA	Amps	30% Voltage Dip
Marathon	600	433PSL6248	3	60	300/375	361	275/344	331	1380
	277/480	432CSL6212	3	60	300/375	452	275/344	414	943
	120/208	432CSL6212	3	60	300/375	1042	275/344	955	708
	120/240	432CSL6212	3	60	300/375	903	275/344	828	708
	120/240	432CSL6212	1	60	201/201	838	185/185	771	250
Marathon	277/480	433CSL6216	3	60	316/395	476	288/360	434	1424
	120/208	433CSL6216	3	60	316/395	1098	288/360	1000	1069
	120/240	433CSL6216	3	60	316/395	951	288/360	867	1069
	120/240	433CSL6216	1	60	241/241	1004	220/220	917	430
Stamford	600	HCI434E17	3	60	300/375	361	275/344	331	1130
	277/480	HCI434E311	3	60	300/375	452	275/344	414	1030
	120/208	HCI434E311	3	60	300/375	1042	275/344	955	815
	120/240	HCI434E311	3	60	300/375	903	275/344	828	815
	120/240	HCI434E311	1	60	200/200	833	185/185	771	570



Engine Data

Manufacturer	Perkins
Model	1506D-E88TAG5
Aspiration	Turbocharged
EPA Tier	3 Flex
Charge Air Cooling System	Air-to-Air
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-5-3-6-2-4
Displacement: L (in. ³)	8.8 (537.01)
Bore: mm (in.)	112.00 (4.41)
Stroke: mm (in.)	149.00 (5.87)
Compression Ratio	16.1:1
BMEP: psi (kPa)	359.69 (2480.00)
Net Horsepower	450.24
Rated RPM	1800
Governor	Isochronous
Speed Regulation	±0.25%

Engine Liquid Capacity

Oil System: qt. (L)	43.32 (41.00)
Cooling System Capacity: gal (L)	11.94 (45.20)

Engine Electrical

Electric Volts: DC	24
Cold Cracking Amps	2200
Battery(s) Required	2

Fuel System

Fuel Injection Type	HEUI
Fuel Pump Rate: gal/hr (L/hr)	34.87 (132.00)
Pump Pressure: in. H ₂ O (kPa)	1605.30 (400.00)
Max Suction Head: in. H ₂ O (kPa)	244.41 (60.90)
Max Static Pressure Head: ft (m)	259.19 (79.00)
Max Fuel Inlet Temp.: °F (°C)	131.00 (55.00)
Recommended Fuel	Low Sulfur Diesel

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m ³ /min)	932.31 (26.40)
Cooling Fan Air Flow: CFM (m ³ /min)	15,538.5 (440.0)
Maximum Air Intake Restriction	
Clean: in. H ₂ O (kPa)	14.85 (3.70)
Dirty: in. H ₂ O (kPa)	24.88 (6.20)

Exhaust System

Gas Temperature: °F (°C)	888.8 (476.0)
Gas Flow: CFM (m ³ /min)	2341.4 (66.3)
Max Exhaust Back Pressure: in. H ₂ O (kPa)	40.13 (10.00)

Sound Level

Open Unit Without Exhaust: dBA 3.2 ft (1M)	100.5
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Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1
Fuel Filter(s) Quantity	2

Fuel Consumption - 125°C

At 100% of Power Rating: gal/hr (L/hr)	22.72 (86.00)
At 75% of Power Rating: gal/hr (L/hr)	17.54 (66.40)
At 50% of Power Rating: gal/hr (L/hr)	13.00 (49.20)
At 25% of Power Rating: gal/hr (L/hr)	N/A

Fuel Consumption - 105°C

At 100% of Power Rating: gal/hr (L/hr)	20.74 (78.50)
At 75% of Power Rating: gal/hr (L/hr)	N/A
At 50% of Power Rating: gal/hr (L/hr)	N/A
At 25% of Power Rating: gal/hr (L/hr)	N/A

Cooling System

Rejection to Charge Cooler: kW (BTUM)	87.0 (4947.6)
Rejection to Coolant & Oil: kW (BTUM)	104.0 (5914.4)
Coolant Flow: gal/min (L/min)	50.2 (190.0)

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 25°C (77°F)

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

125° RATINGS: 125° 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.

105° RATINGS: 105° 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.

Alternator Data

Manufacturer	Marathon
Type	PMG
Insulation NEMA Rise/Temp	NEMA H/125°C
Hertz	60
Phase	3
RPM	1800
Leads	12
Amortisseur Windings	Full
CFM Cooling Required	800
Voltage Regulator	PM500
Sensing	Three Phase
Voltage Regulation, No Load - Full Load	0.5%

Optional 0.25% Regulation DVR2000E+ Available

Features

- NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE & CSA Certified and UL Listed
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Wet wound, epoxied field windings
- Designed to withstand overspeeds of up to 125%
- Hybrid analog/digital voltage regulator
- Under frequency protection
- Under frequency indication light
- Less than one cycle response time
- Over excitation protection
- Over excitation indication light
- Easy access front-panel adjustments
- Over voltage protection shutdown
- Analog input for paralleling

Alternator Data

Manufacturer	Stamford
Type	PMG
Insulation NEMA Rise/Temp	NEMA H/125°C
Hertz	60
Phase	3
RPM	1800
Leads	12
Amortisseur Windings	Full
CFM Cooling Required	2780
Voltage Regulator	MX341
Sensing	Single Phase
Voltage Regulation, No Load - Full Load	1.0%

Features

- BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359 complaint
- IP23 enclosure
- Dynamically balanced to exceed BS6861:Part 1 Grade 2.5 vibration standard
- Quality assurance to BS EN ISO 9001
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Heavy duty bearings
- Fully guarded
- Overexcitation protection
- Under frequency protection
- Analog input
- Overvoltage protection
- Paralleling compatible
- Single-phase sensing



DGC2020 Digital Controller

- Integrated engine-genset control, protection, and metering
- Front panel 3 position controls and indicators enable quick and simple operation
- Emergency stop push button and an Alarm Horn with silence button
- SAE J1939 Engine ECU communications
- 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.



Deep Sea 8610 MK II Digital Controller

- Comprehensive kW & kVAR load sharing and synchronizing capabilities
- Direct breaker control via fascia buttons
- Heated display option available
- Customisable power-up text and images
- Built in governor and AVR control
- RS232, RS485 & ethernet remote communications
- Utility decoupling protection
- Remote SCADA monitoring via DSE software applications
- Fully configurable via PC using USB, RS232, RS485 & Ethernet communication

Standard Features:

- Heavy Duty Steel Base
- Vibration Isolators
- Oil Drain Valve with Extension
- Battery Rack & Cables
- High Ambient Unit Mounted Radiator
- Trailer w/Integral Fuel Tank
- Battery Charging Alternator
- Factory Powder
- Coating
- Factory Test

Controller Options

DGC-2020HD Controller for Paralleling
Fiber Optic Ethernet (DGC-2020HD)
Generator Protection (DGC-2020)
Remote Mount Break Glass E-Stop Switch

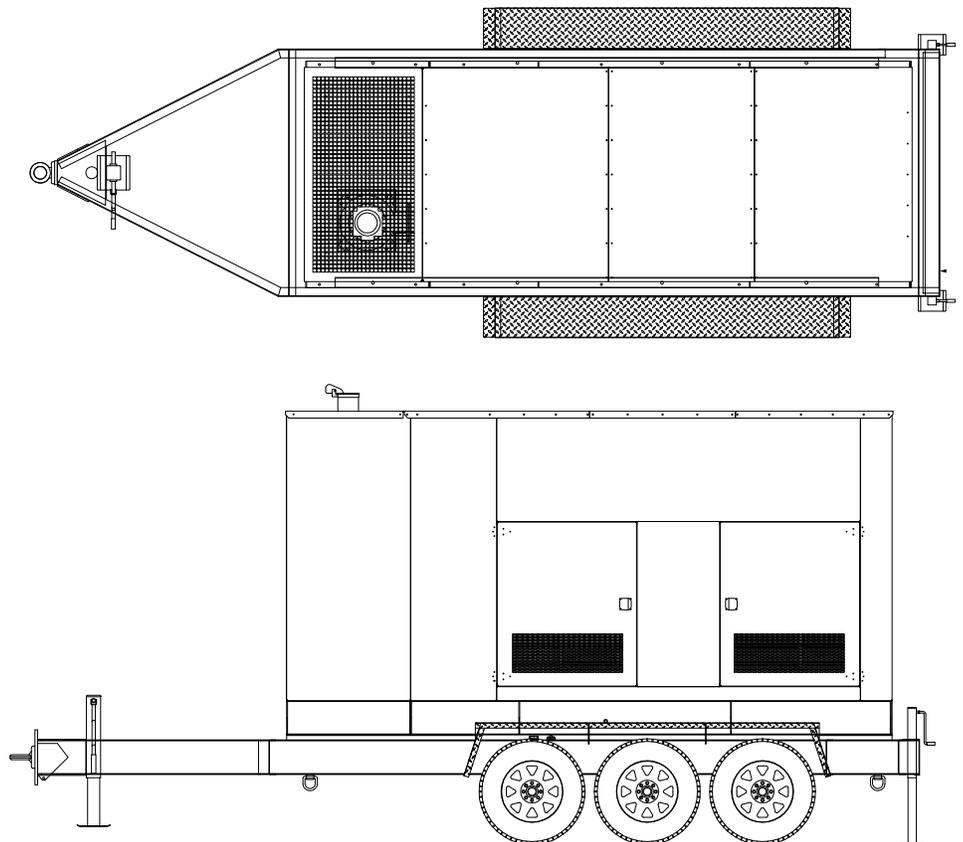
Miscellaneous Options:

- Pad Type Battery Heater
- Battery Heater Blanket
- Oil Pan Heater
- Generator Strip Heater
- Diesel Locomotive Cable
- Extenda-Lites
- Hydraulic Brake Kit
- Pintle Ring Hitch
- Spare Tire Kit
- Lug Wrench
- Hydraulic Jack
- Single Point Lift
- Battery Charger
- Coolant Drain Kit
- Block Heater
- Line Circuit Breaker
- Output Power Cable
- Multi-Voltage Switch
- 20 Amp 120V & GFI Receptacle
- 20 Amp 120v GFI & 30 Amp 120/240V Twist-Lock Receptacle
- 30 Amp 120V RV Receptacle
- Cam-Lok Receptacle

Standard Enclosed Unit

Options:

- Sound Attenuated Enclosure
- Load Center, Lights & GFI Receptacle



Note: The above drawings are provided for reference only and should not be used for planning installation.

Contact your local distributor for more information.